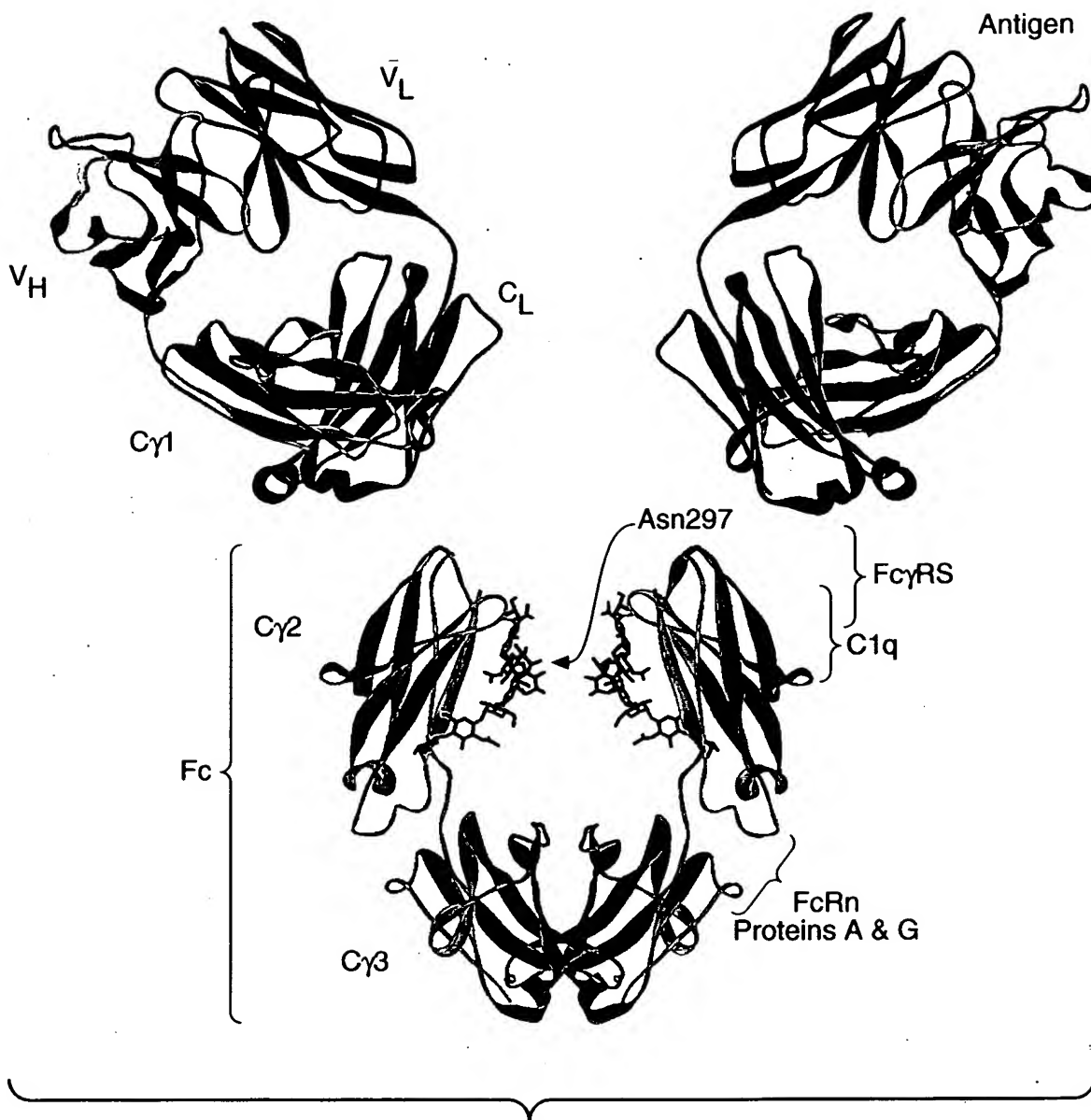
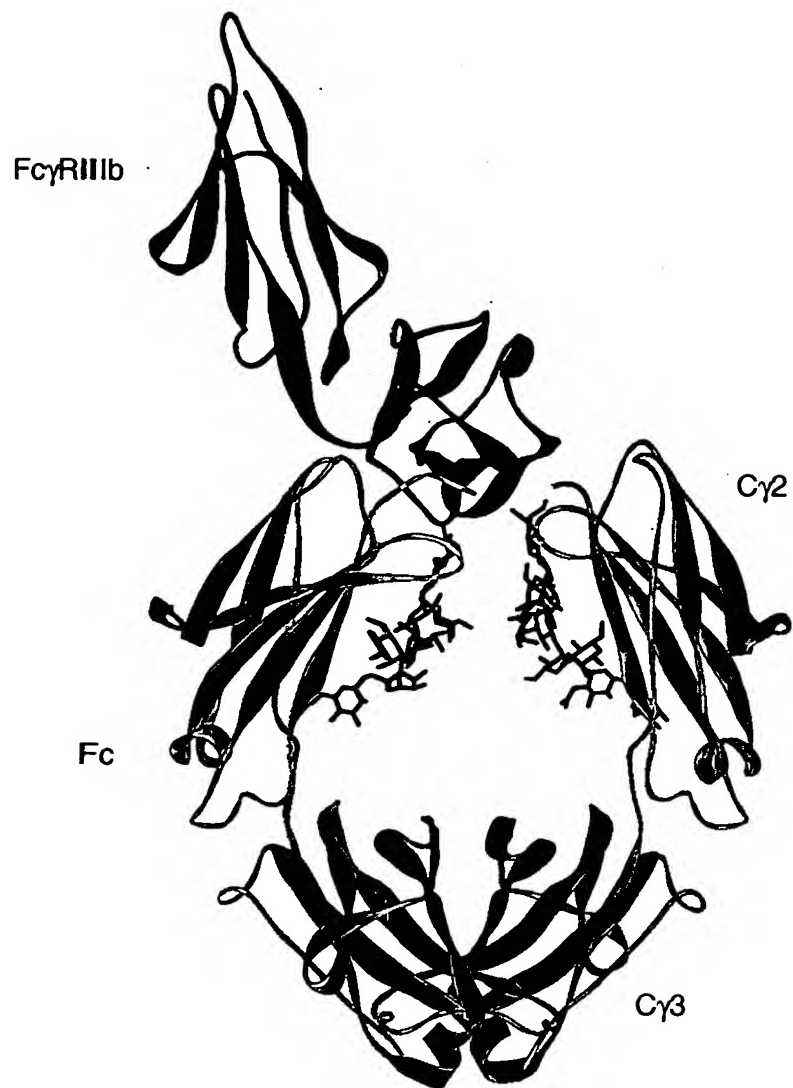


02480 U.S. PTO  
111004



**FIG. 1**



**FIG.\_2**

SEQ ID NO: 1

VH1-&gt;

1            10            20            30            40            50            60  
 123456789012345678901234567890123456789012345678901234567890  
 QVQLQESGPGLVLRPSQTLSTCTVSGFTFTDFYMNWVRQPPGRGLEWIGFIRDKAKGYTT

70            80            90            100            110            120  
 123456789012345678901234567890123456789012345678901234567890  
 EYNPSVKGRVTMLVDTSKNQFSLRLSSVTAADTAVYYCAREGHTAAPFDYWGQGS�VTVS

Cy1-&gt;

130            140            150            160            170            180  
 123456789012345678901234567890123456789012345678901234567890  
 SASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQS

HINGE-&gt;

190            200            210            220            230            240  
 123456789012345678901234567890123456789012345678901234567890  
 SGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLG

1234567890123456  
 KABAT 22            23

Cy2-&gt;

250            260            270            280            290            300  
 123456789012345678901234567890123456789012345678901234567890  
 GPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY  
 789012345678901234567890123456789012345678901234567890123456  
 240            250            260            270            280            290

?Cy3?-&gt;

310            320            330            340            350            360  
 123456789012345678901234567890123456789012345678901234567890  
 NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRD  
 789012345678901234567890123456789012345678901234567890123456  
 300            310            320            330            340            350

370            380            390            400            410            420  
 123456789012345678901234567890123456789012345678901234567890  
 ELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSR  
 789012345678901234567890123456789012345678901234567890123456  
 360            370            380            390            400            410

430            440            450  
 1234567890123456789012345678901  
 WQQGNVFSCSVMHEALHNHYTQKSLSLSPGK  
 7890123456789012345678901234567  
 420            430            440

**FIG.\_3**

SEQ ID NO: 1

VH1-&gt;

1            10            20            30            40            50            60  
 123456789012345678901234567890123456789012345678901234567890  
 QVQLQESGPGLVLRPSQTLSTCTVSGFTFTDFYMNWVRQPPGRGLEWIGFIRDKAKGYTT

70            80            90            100            110            120  
 123456789012345678901234567890123456789012345678901234567890  
 EYNPSVKGRVTMLVDTSKNQFSLRLSSVTAADTAVYYCAREGHTAAPFDYWGQGS�TVS

Cy1-&gt;

130            140            150            160            170            180  
 123456789012345678901234567890123456789012345678901234567890  
 SASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQS

HINGE-&gt;

190            200            210            220            230            240  
 123456789012345678901234567890123456789012345678901234567890  
 SGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLG

1234567890123456  
 KABAT 22            23

Cy2-&gt;

250            260            270            280            290            300  
 123456789012345678901234567890123456789012345678901234567890  
 GPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY  
 789012345678901234567890123456789012345678901234567890123456  
 240            250            260            270            280            290

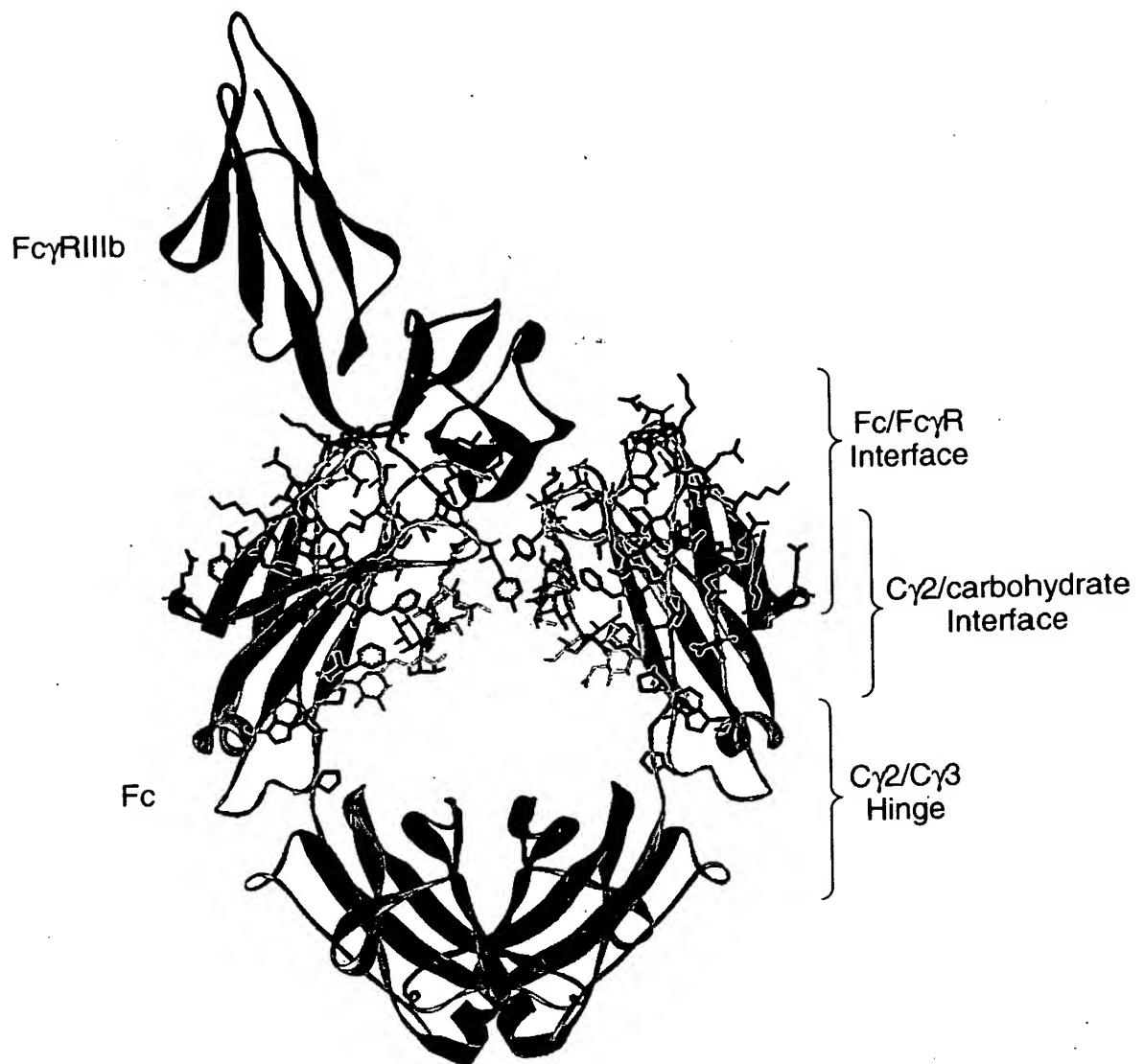
?Cy3?-&gt;

310            320            330            340            350            360  
 123456789012345678901234567890123456789012345678901234567890  
 NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRD  
 789012345678901234567890123456789012345678901234567890123456  
 300            310            320            330            340            350

370            380            390            400            410            420  
 123456789012345678901234567890123456789012345678901234567890  
 ELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPVLDSGDSFFLYSKLTVDKSR  
 789012345678901234567890123456789012345678901234567890123456  
 360            370            380            390            400            410

430            440            450  
 1234567890123456789012345678901  
 WQQGNVFSCSVMHEALHNHYTQKSLSLSPGK  
 7890123456789012345678901234567  
 420            430            440

**FIG.\_3**

**FIG. 4**

SEQ ID NO: 2

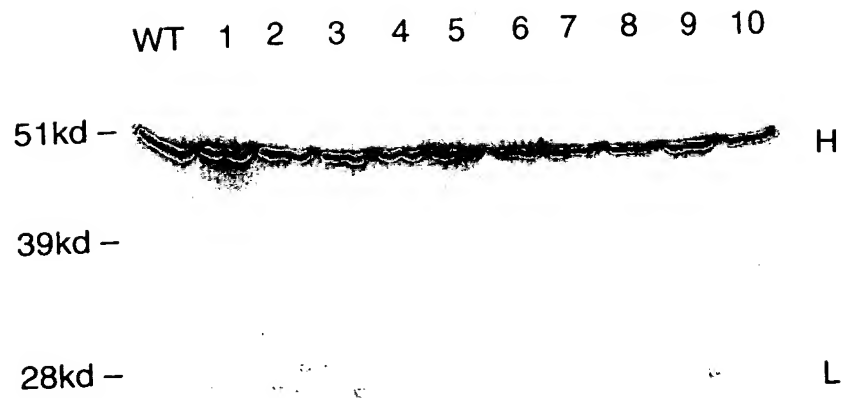
22            23            24            25            26            27            28  
1234567890123456789012345678901234567890123456789012345678901234567890  
DKTHTCPPCPPAPELLGGPSVFLFPKP~~K~~DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVD

29            30            31            32            33            34  
1234567890123456789012345678901234567890123456789012345678901234567890  
GVEVHNAKTKPREEQYNSTYRVVS~~V~~LT~~V~~LHQDWLNGKEYKCKVSNKALPAPIEKTISKAK

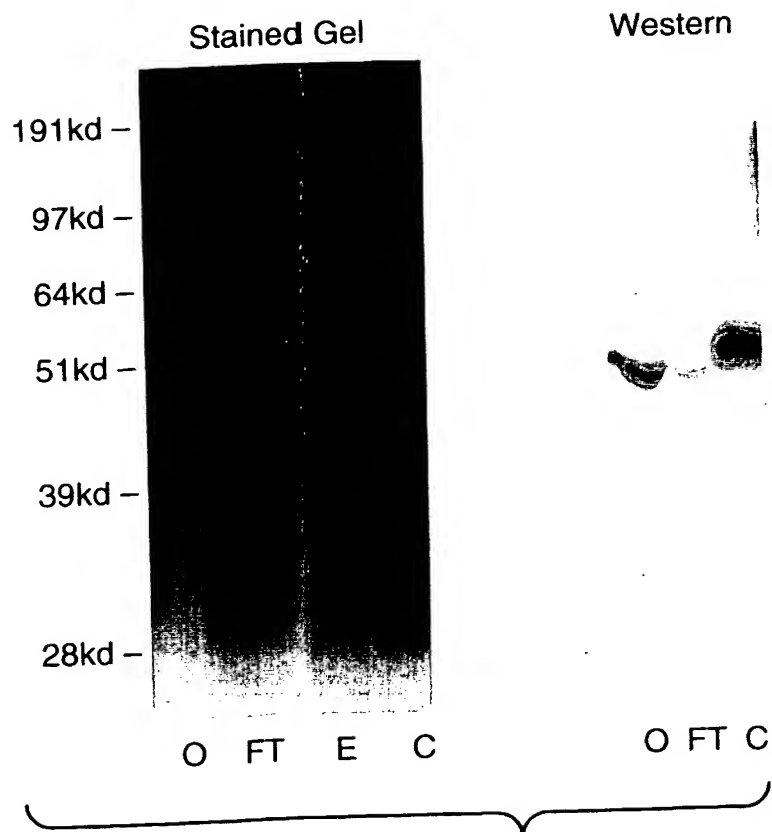
35            36            37            38            39            40  
1234567890123456789012345678901234567890123456789012345678901234567890  
GQPREPQVY~~T~~LP~~P~~SRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYK~~T~~TPPVLD~~S~~

41            42            43            44  
1234567890123456789012345678901234567890123456789012345678901234567  
DGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

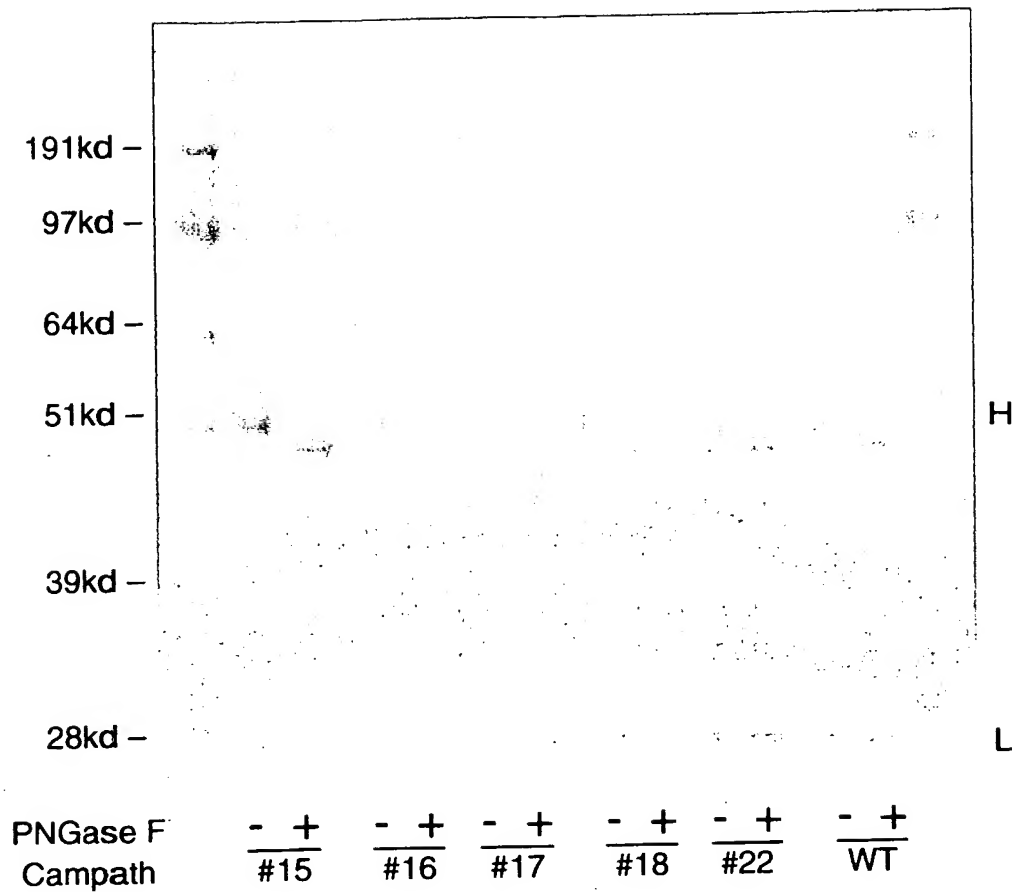
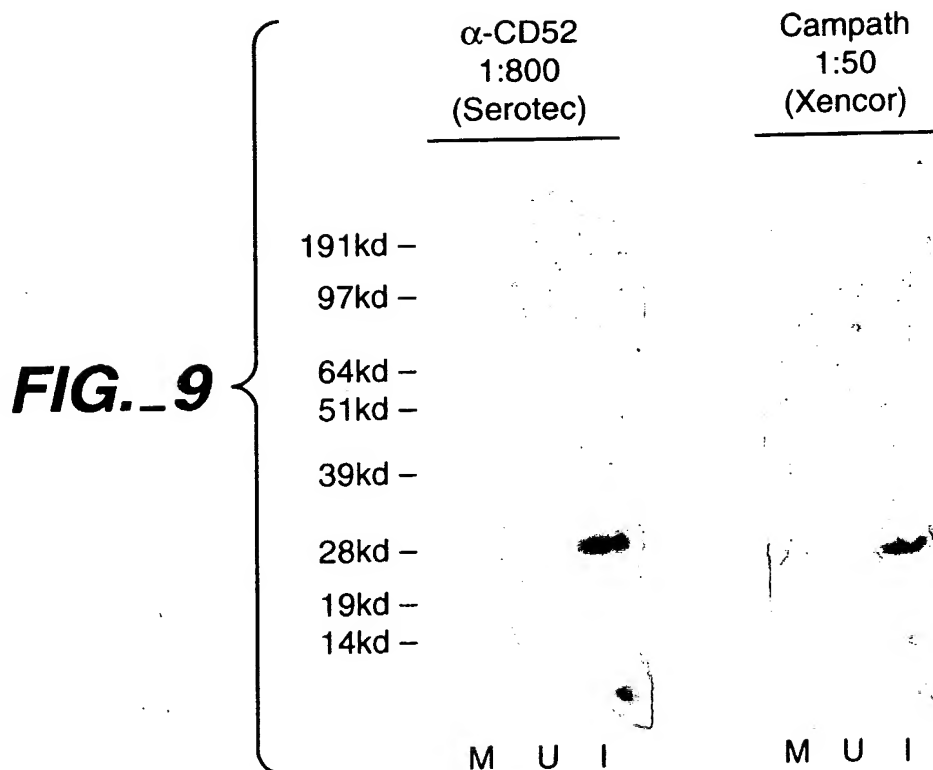
**FIG.\_5**



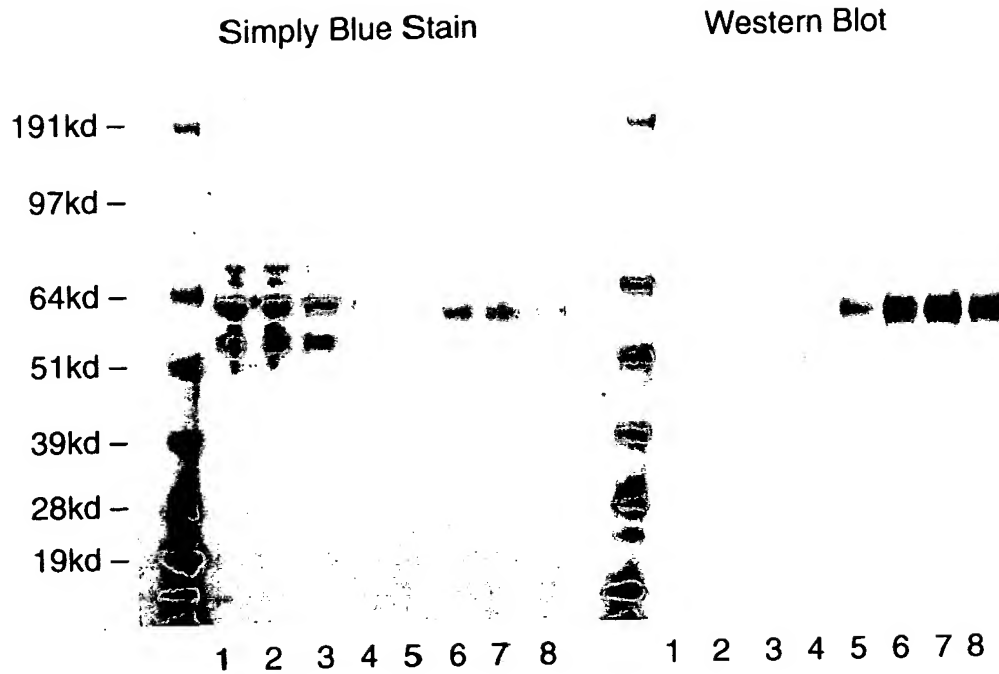
**FIG.\_6**

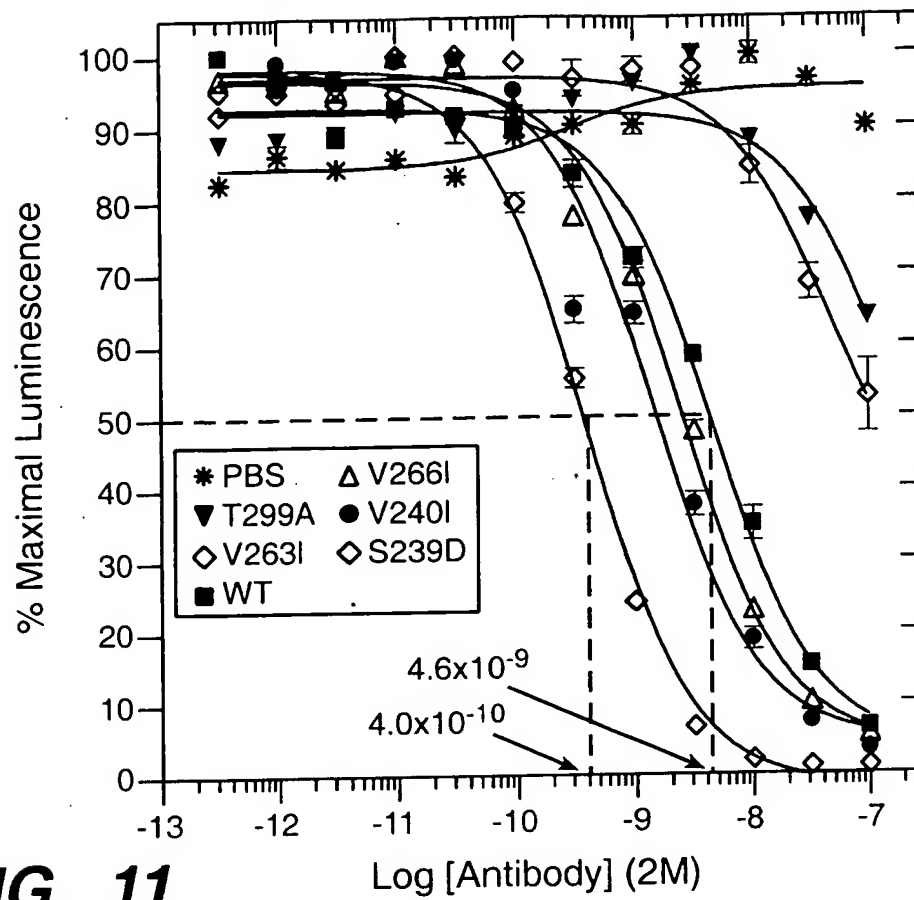
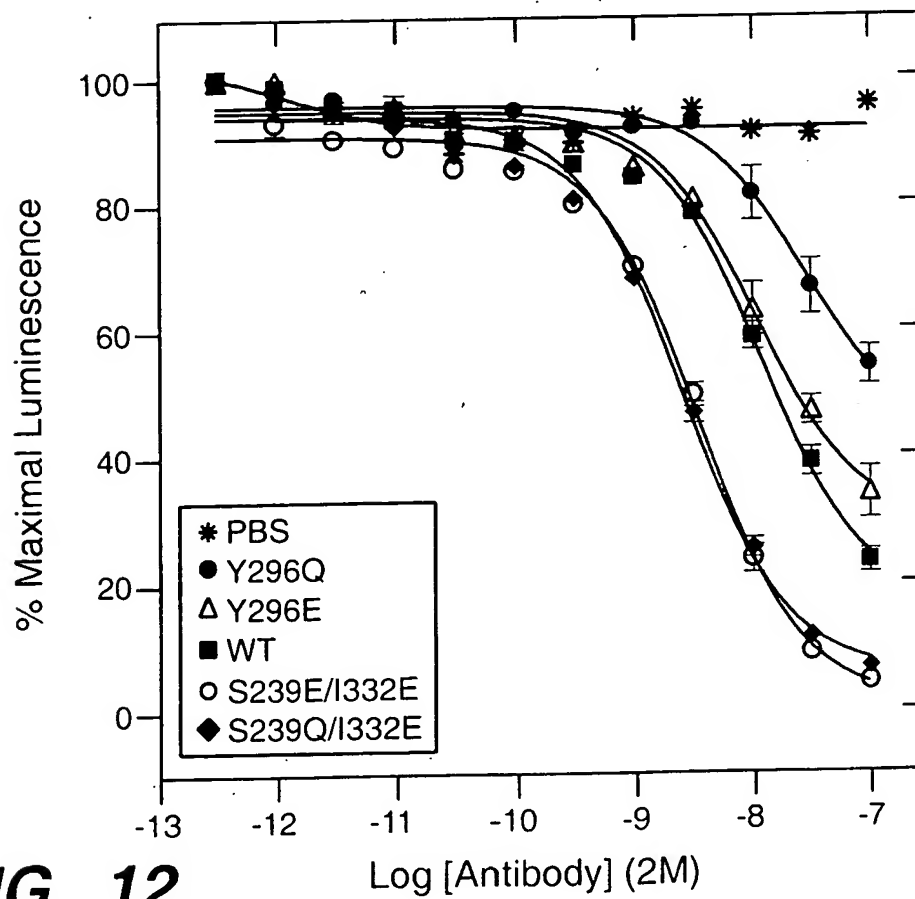


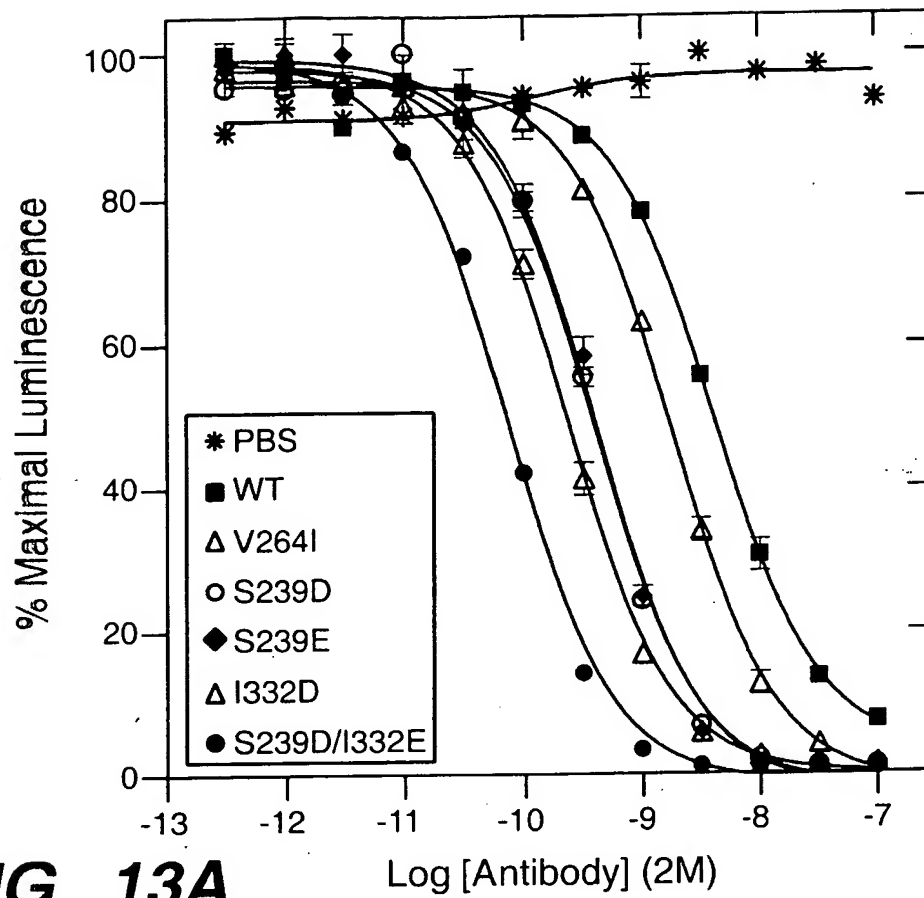
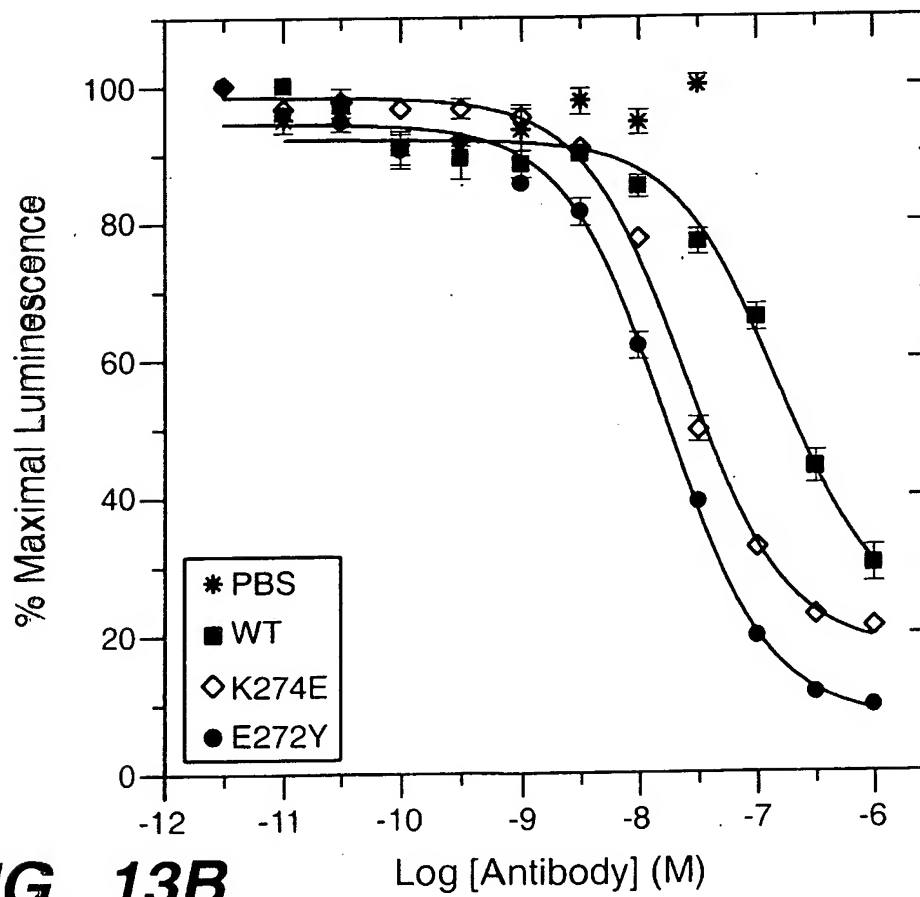
**FIG.\_7**

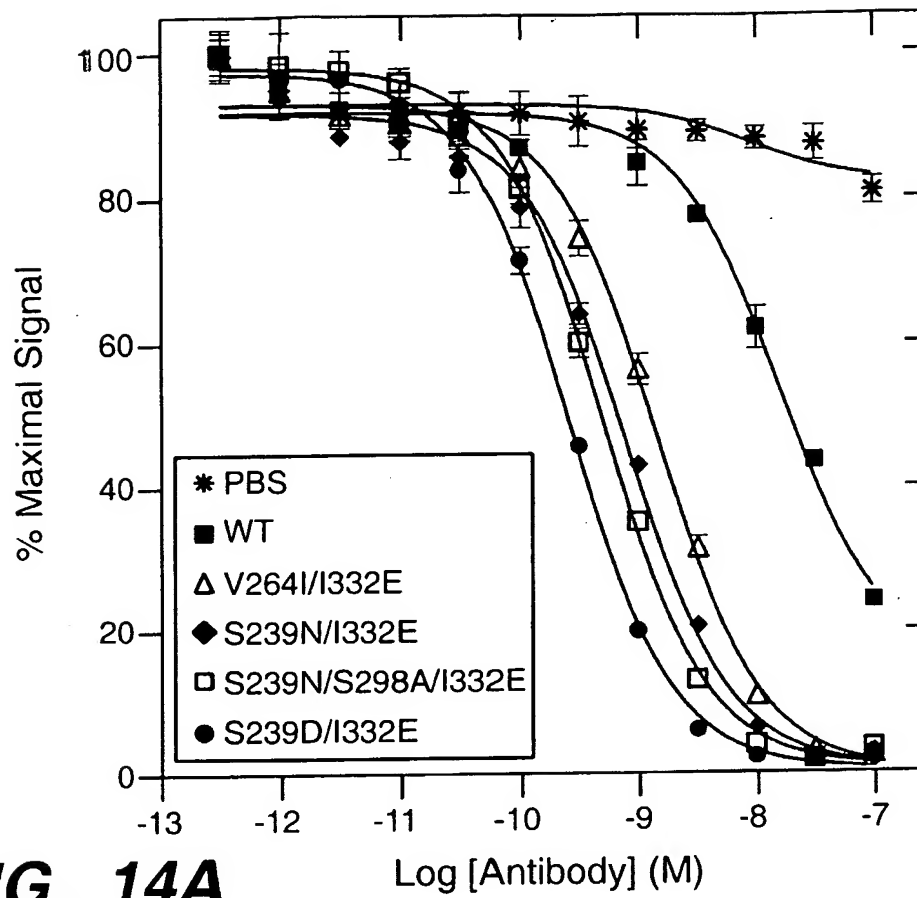
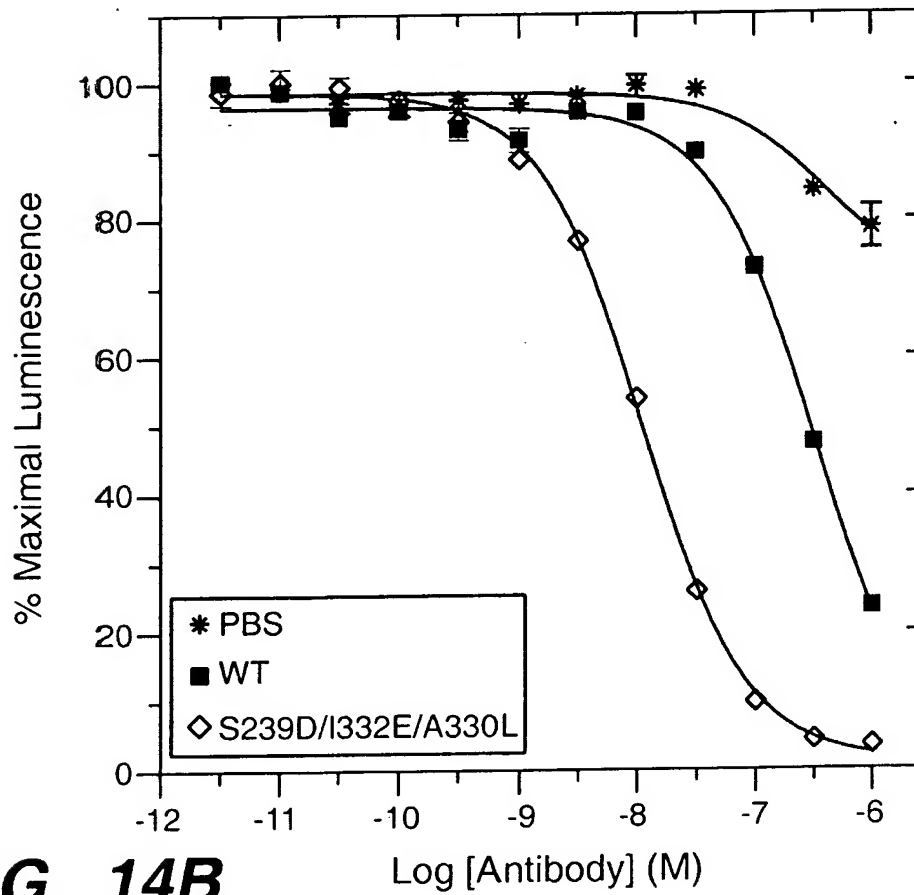
**FIG.\_8****FIG.\_9**

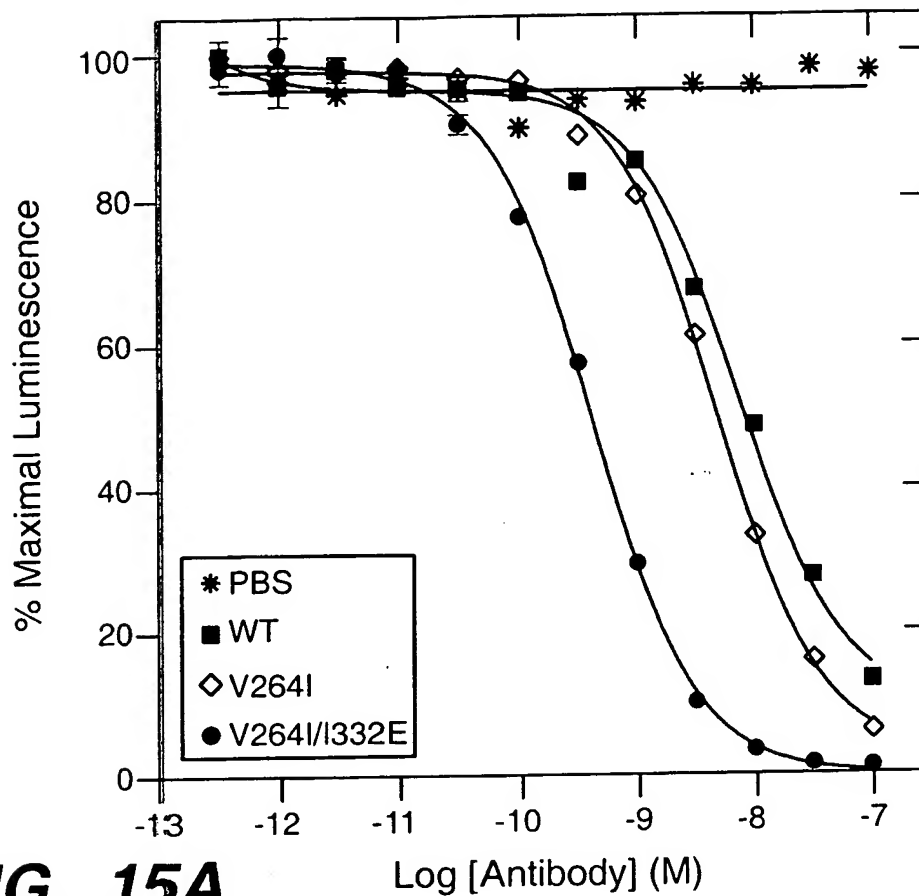
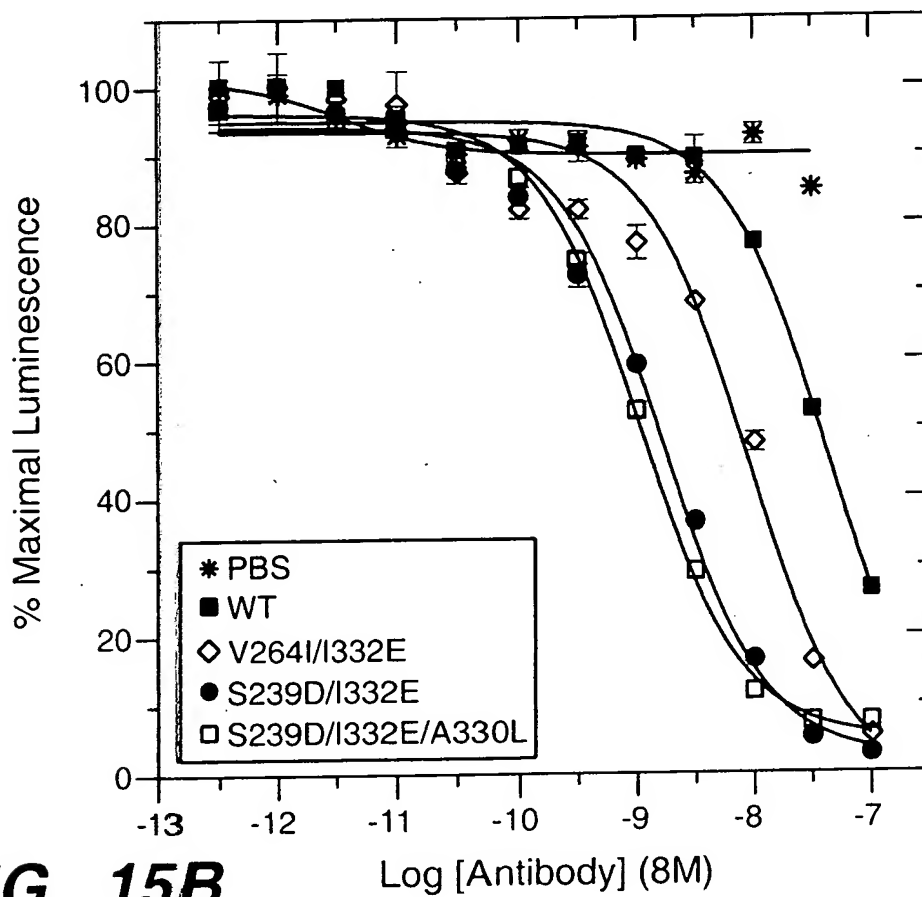


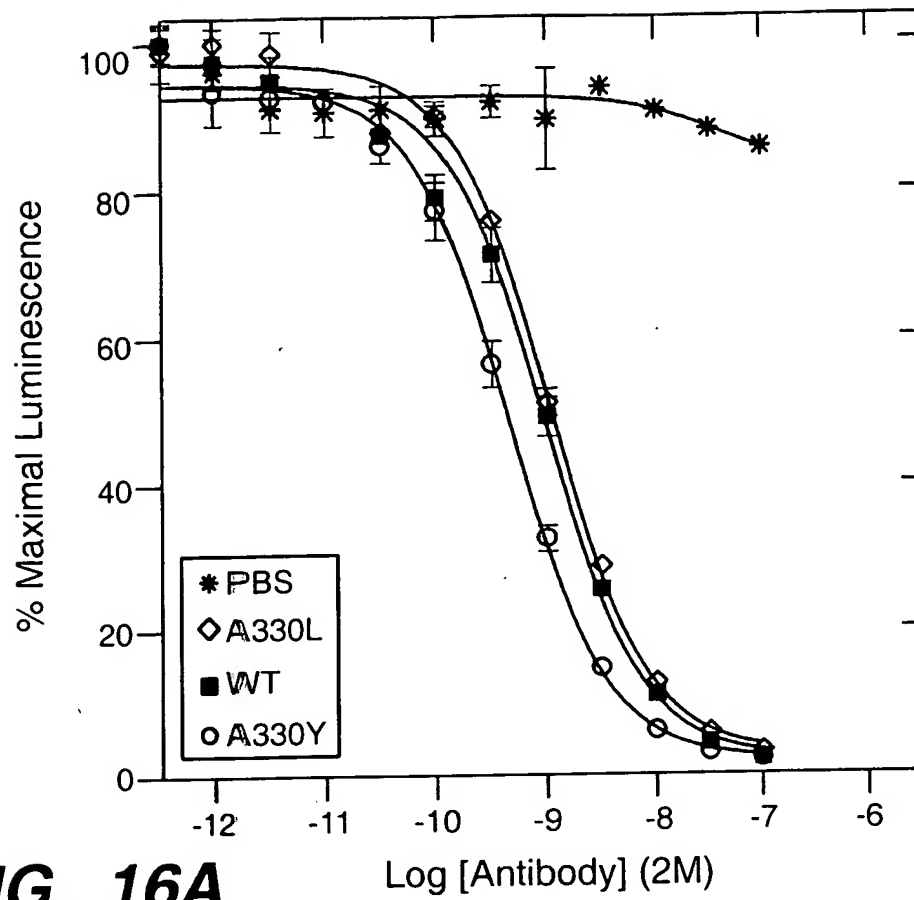
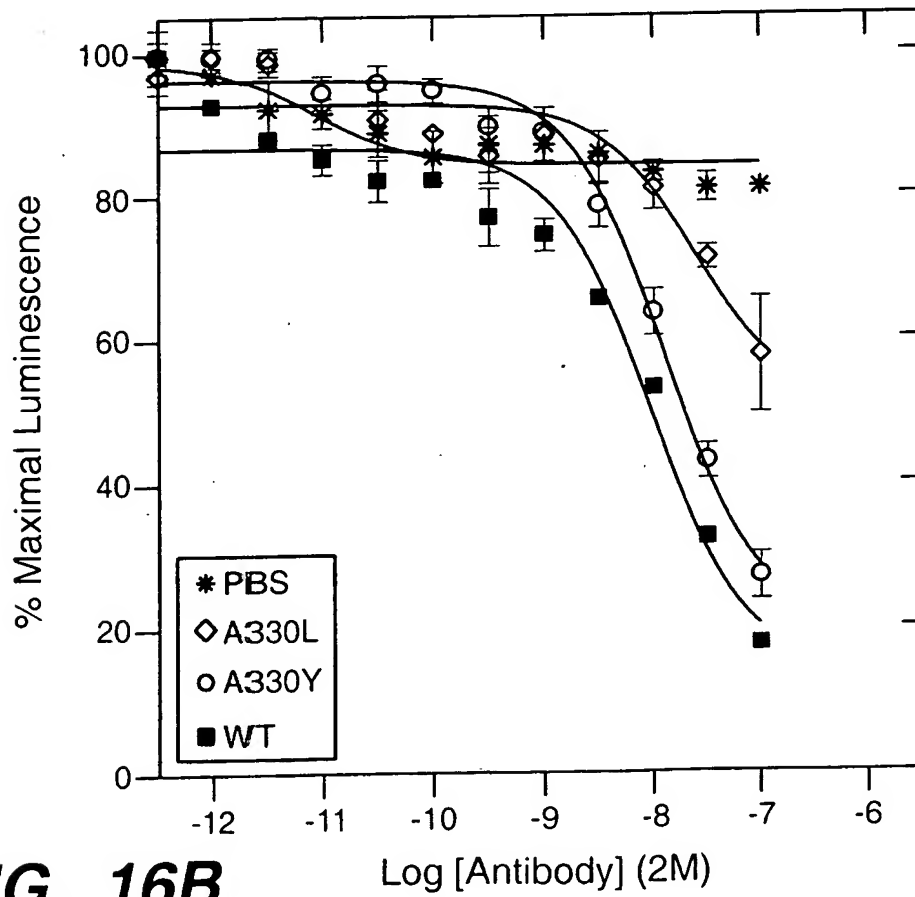
**FIG.\_10**

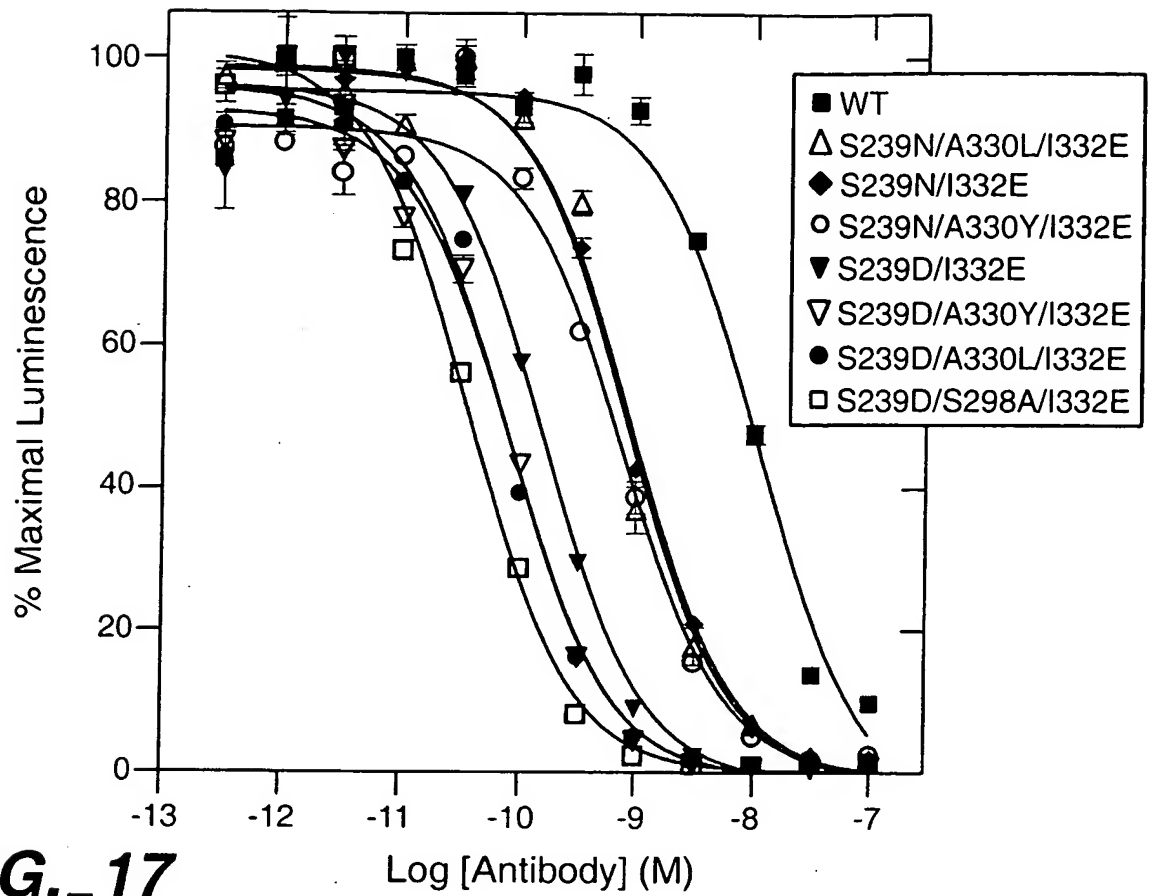
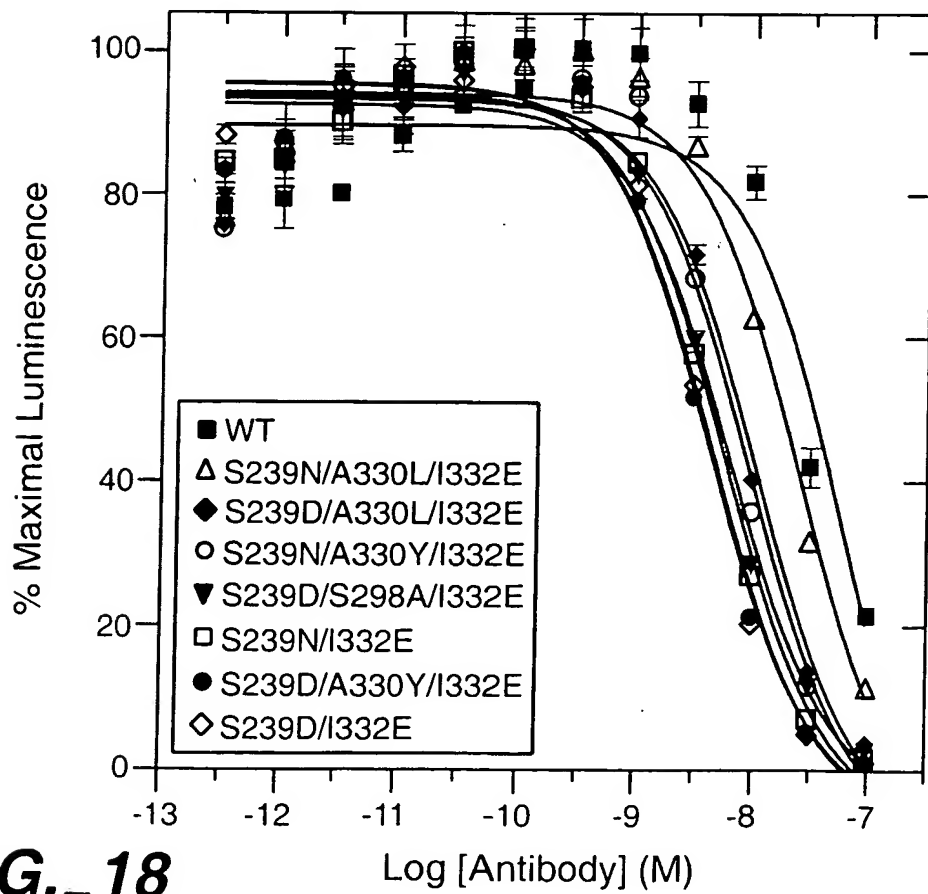
**FIG. 11****FIG. 12**

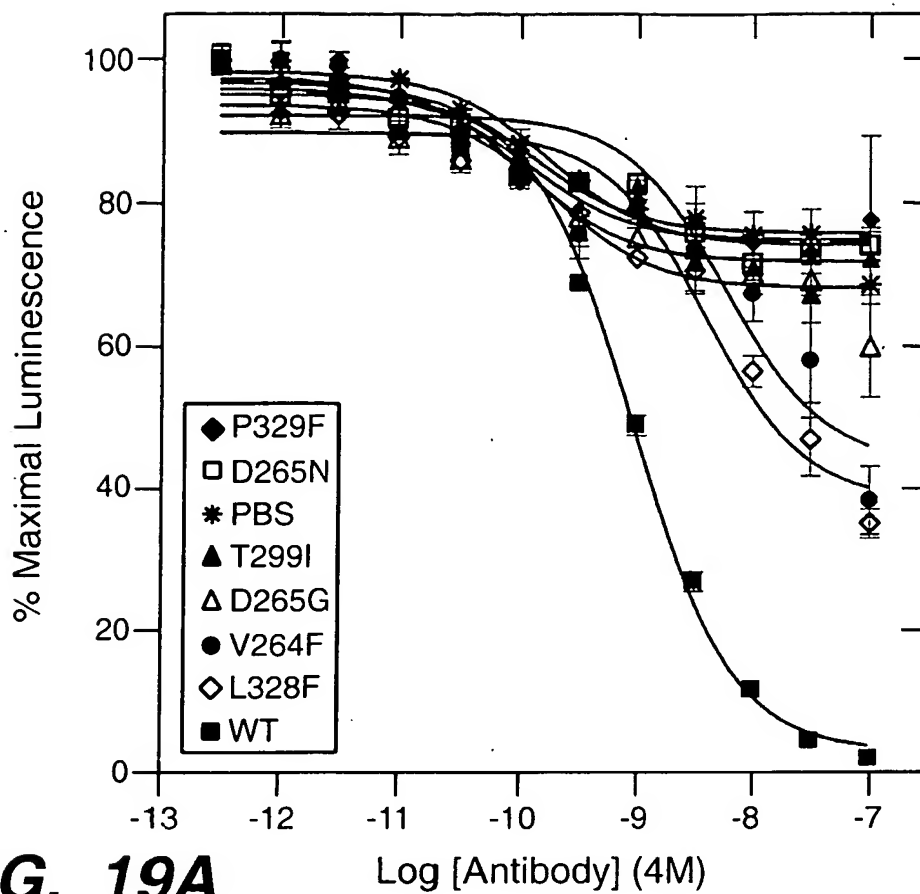
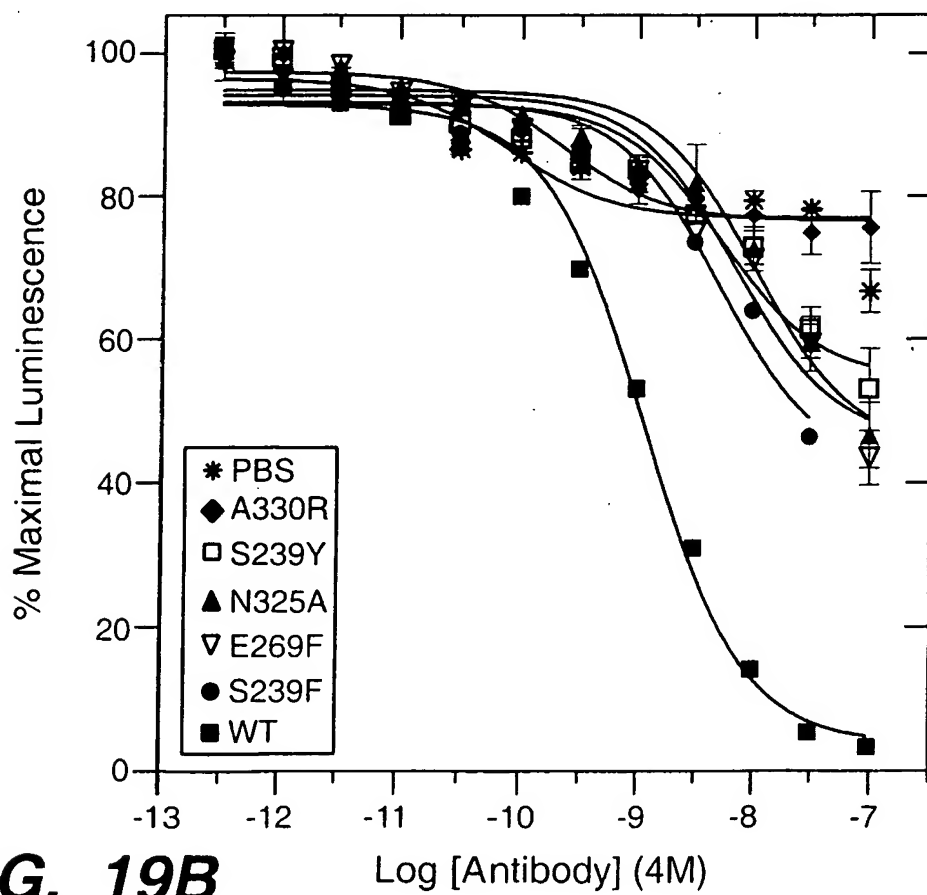
**FIG. 13A****FIG. 13B**

**FIG. 14A****FIG. 14B**

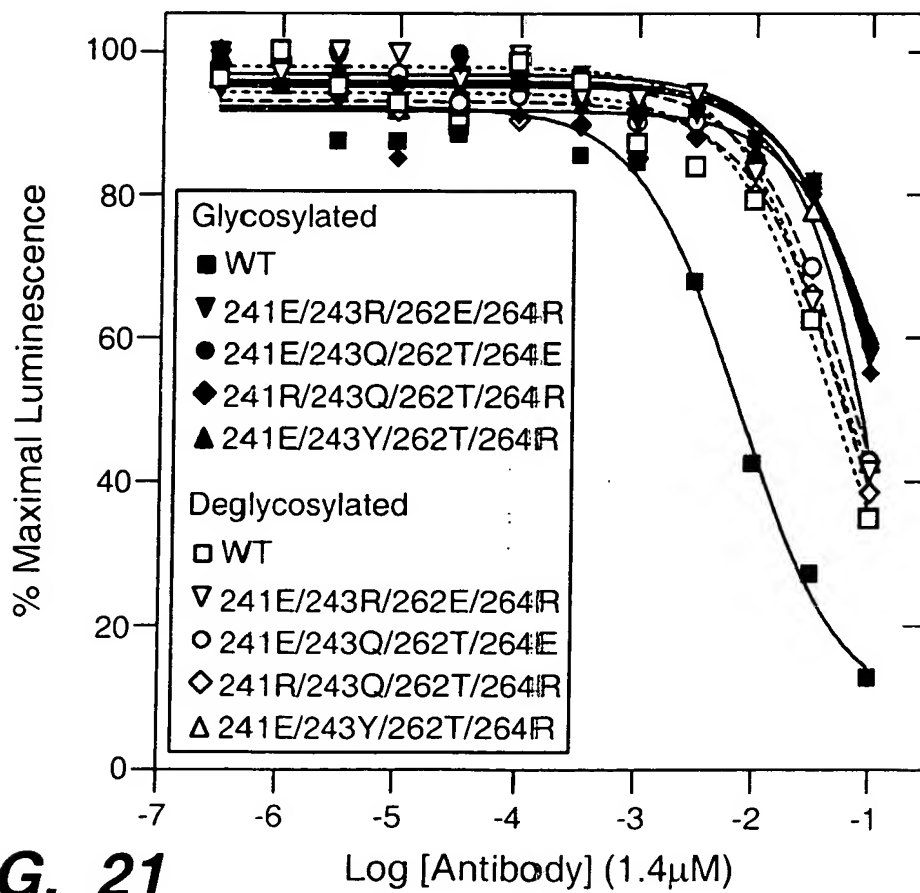
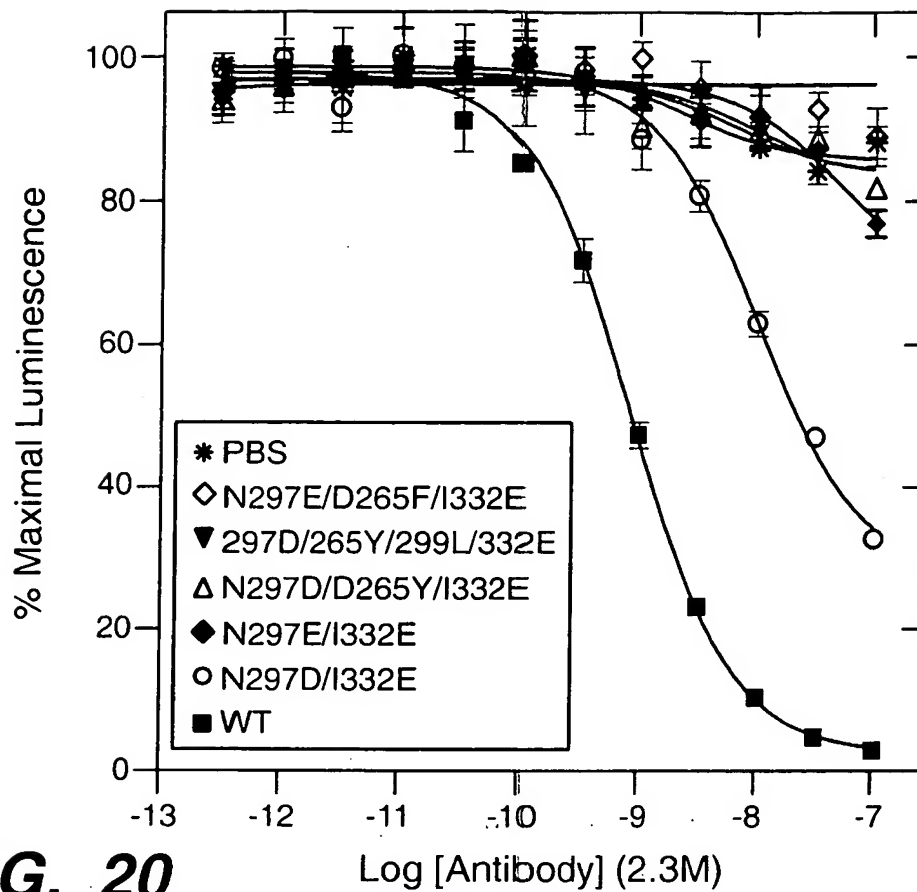
**FIG. 15A****FIG. 15B**

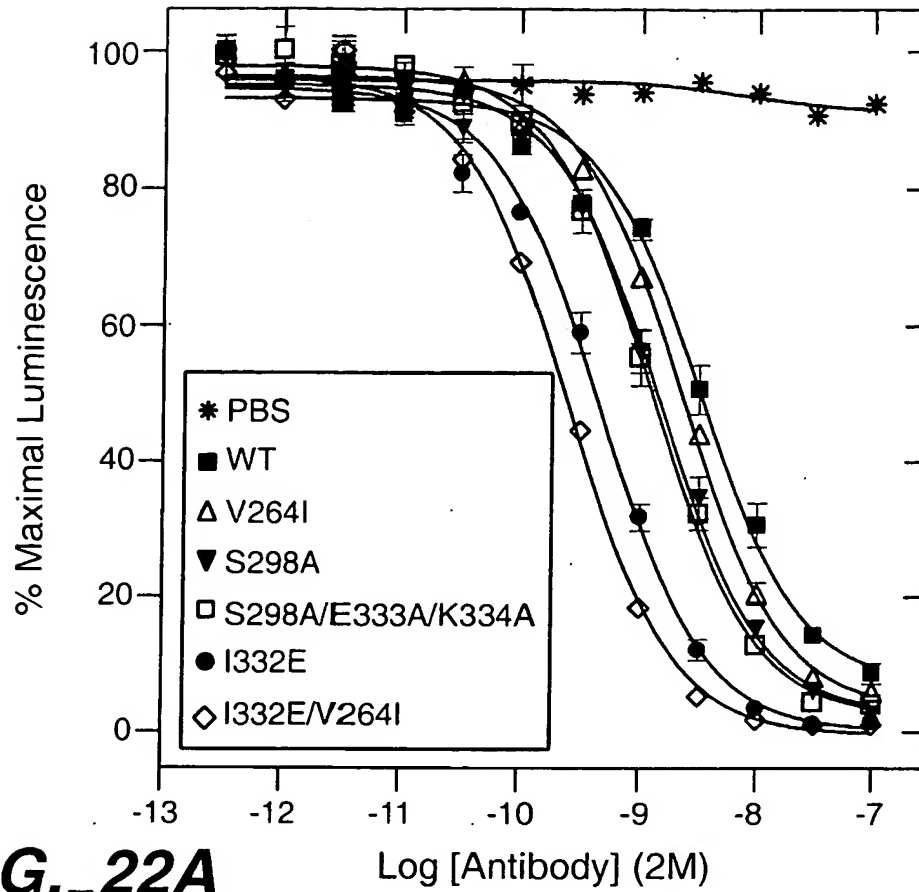
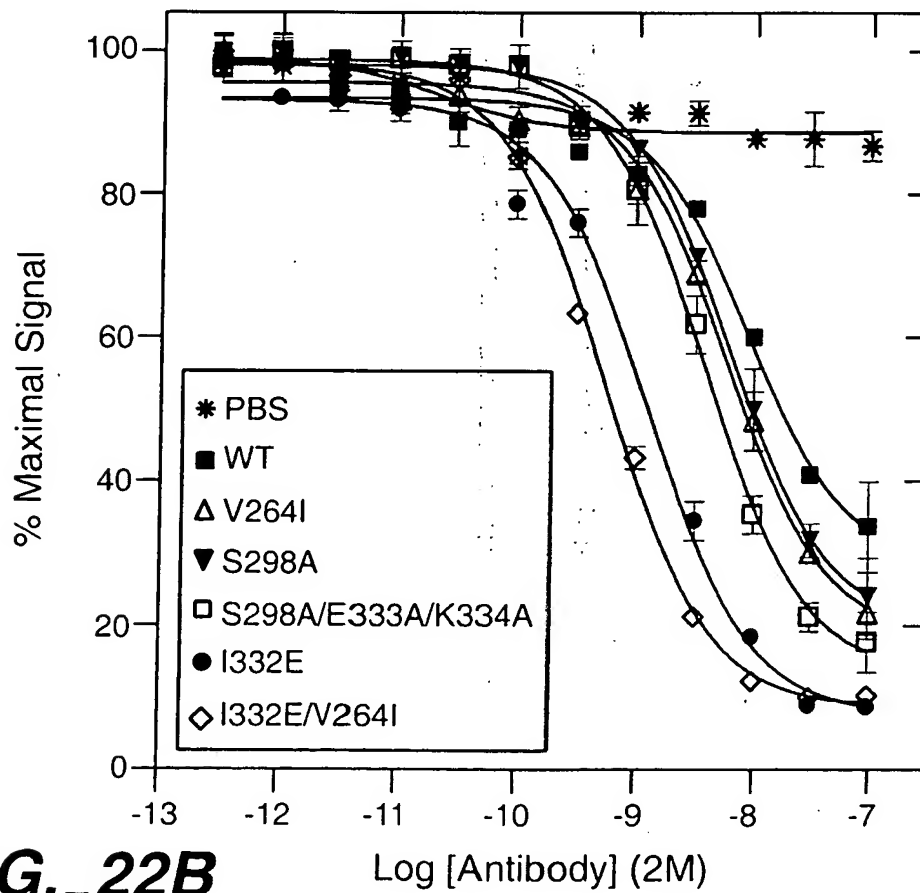
**FIG. 16A****FIG. 16B**

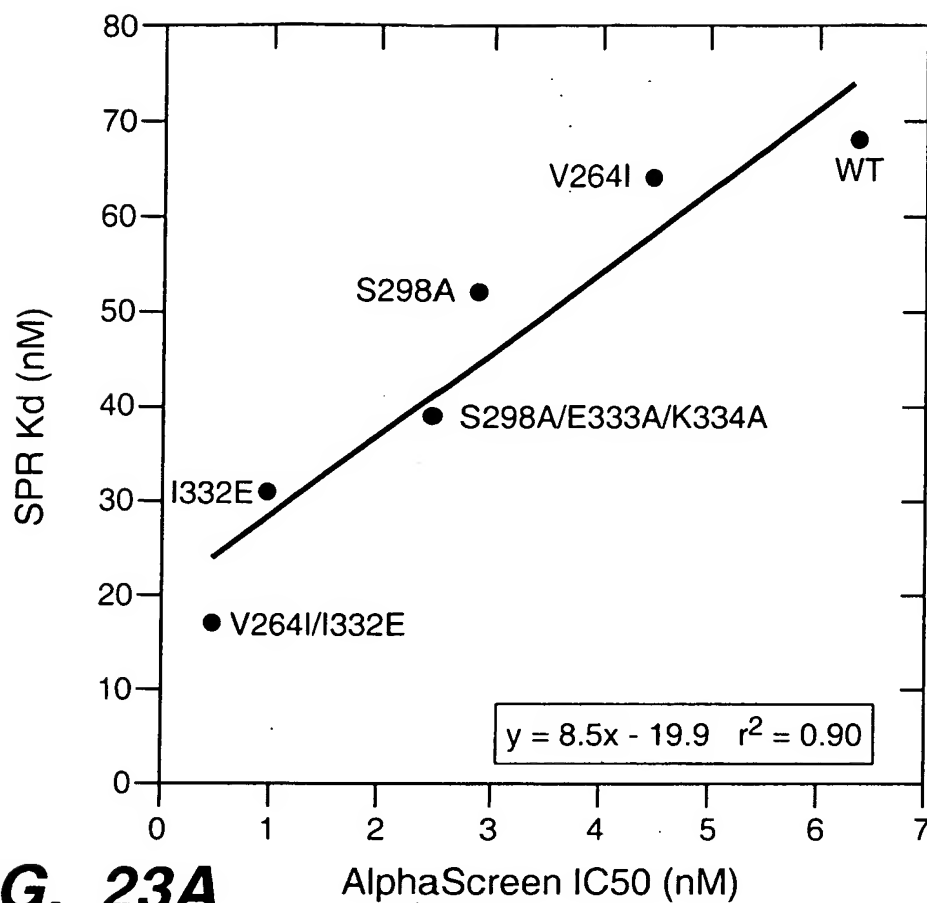
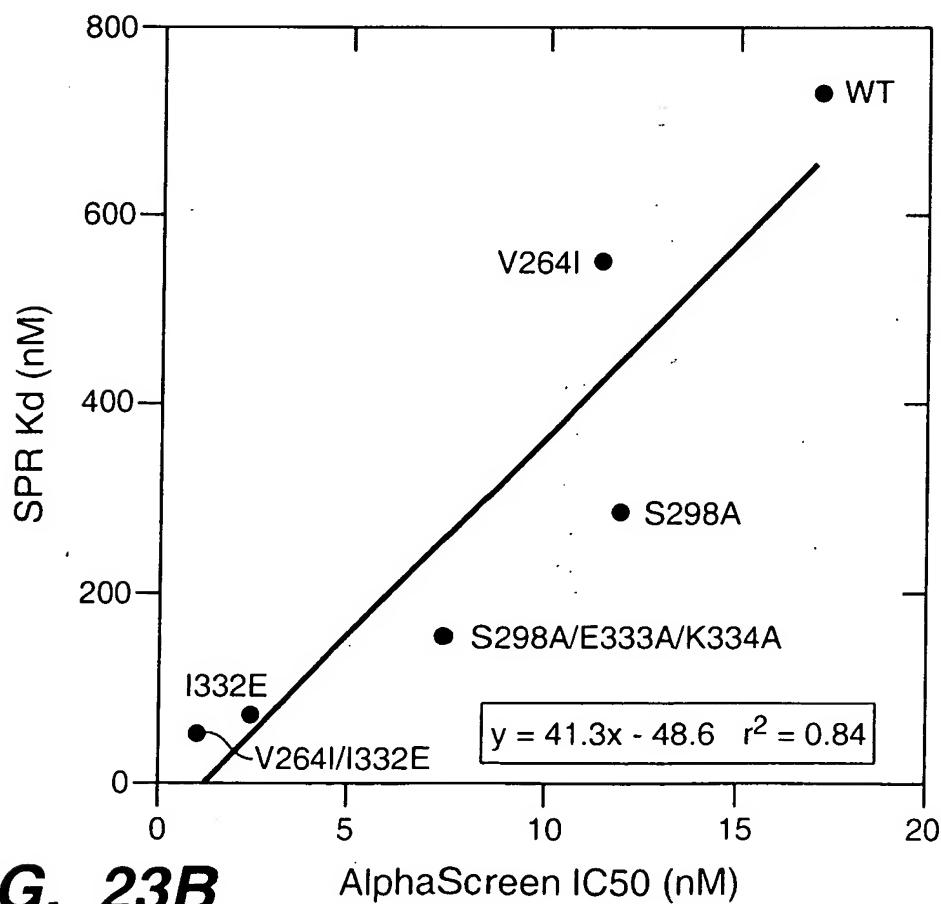
**FIG. 17****FIG. 18**

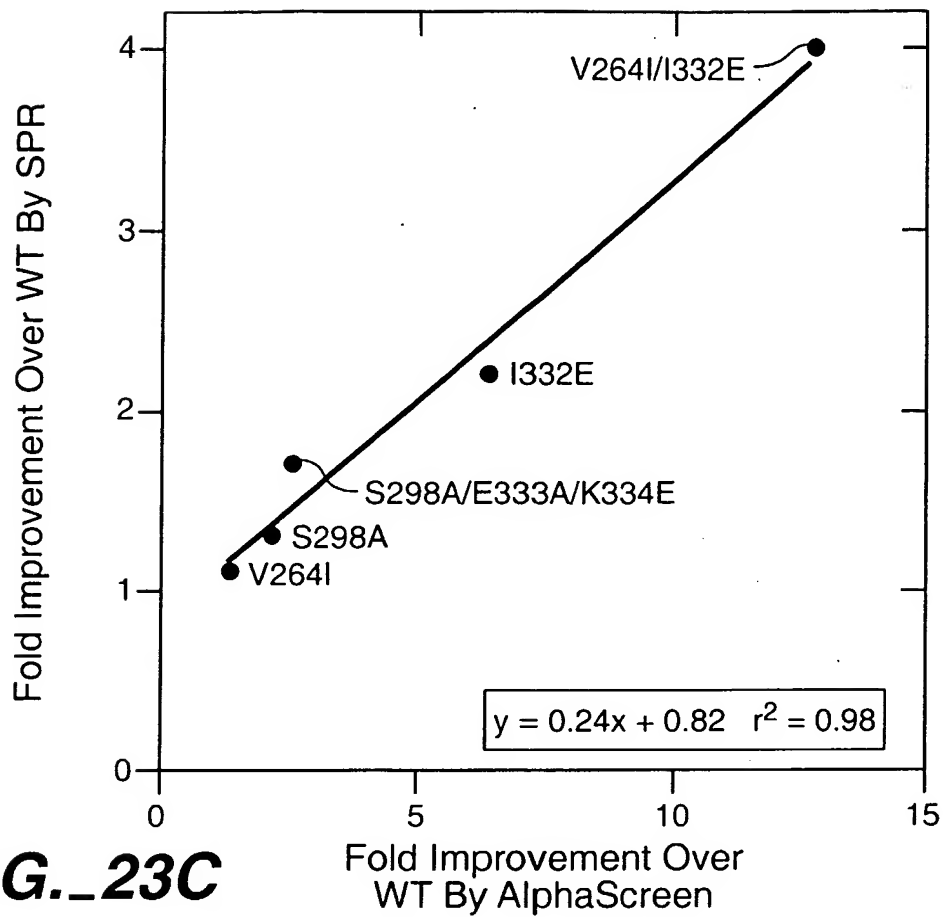
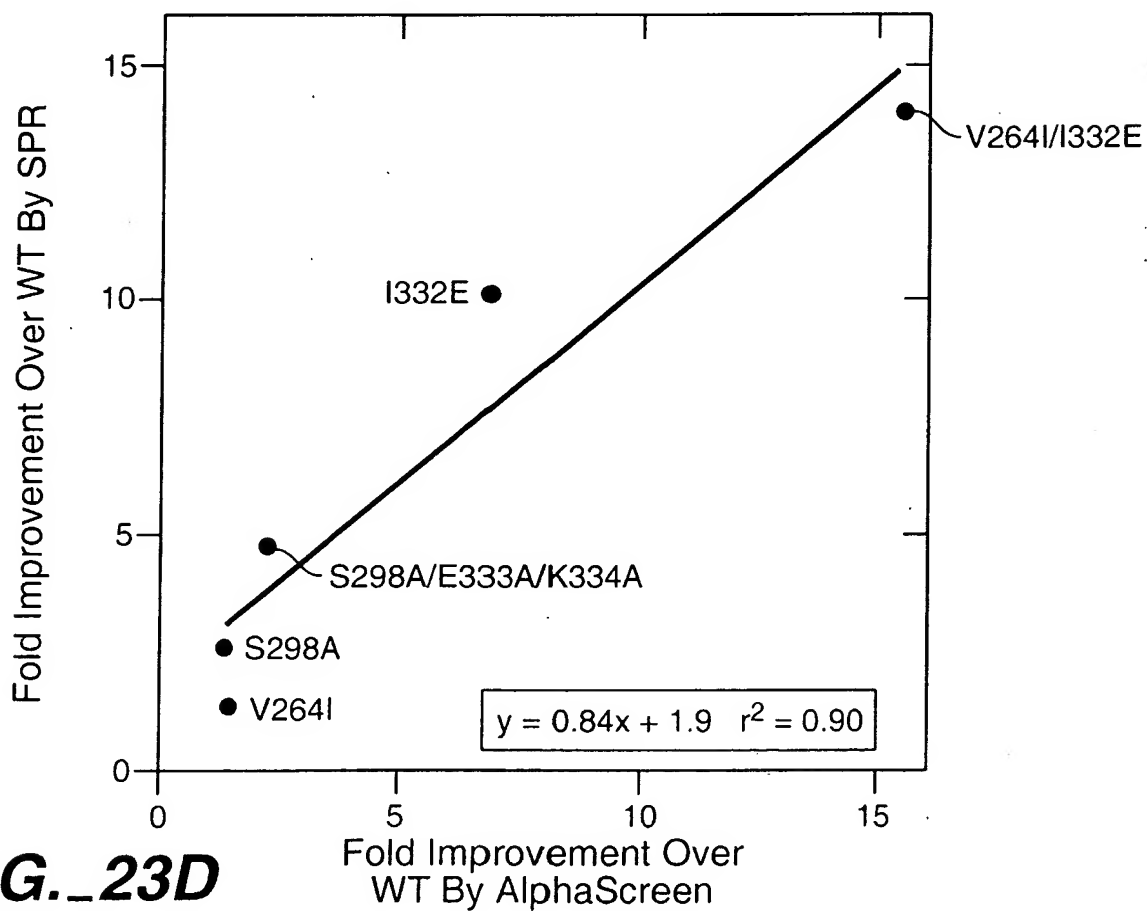
**FIG. 19A****FIG. 19B**

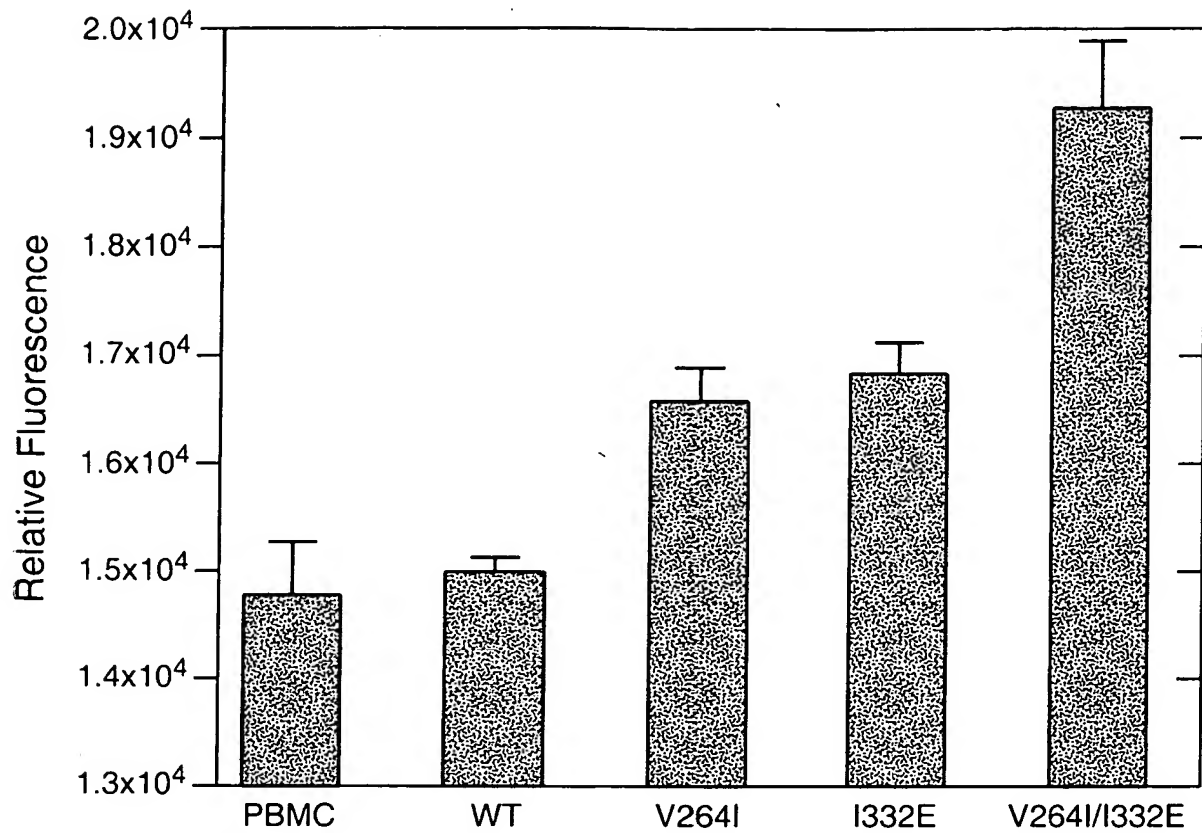
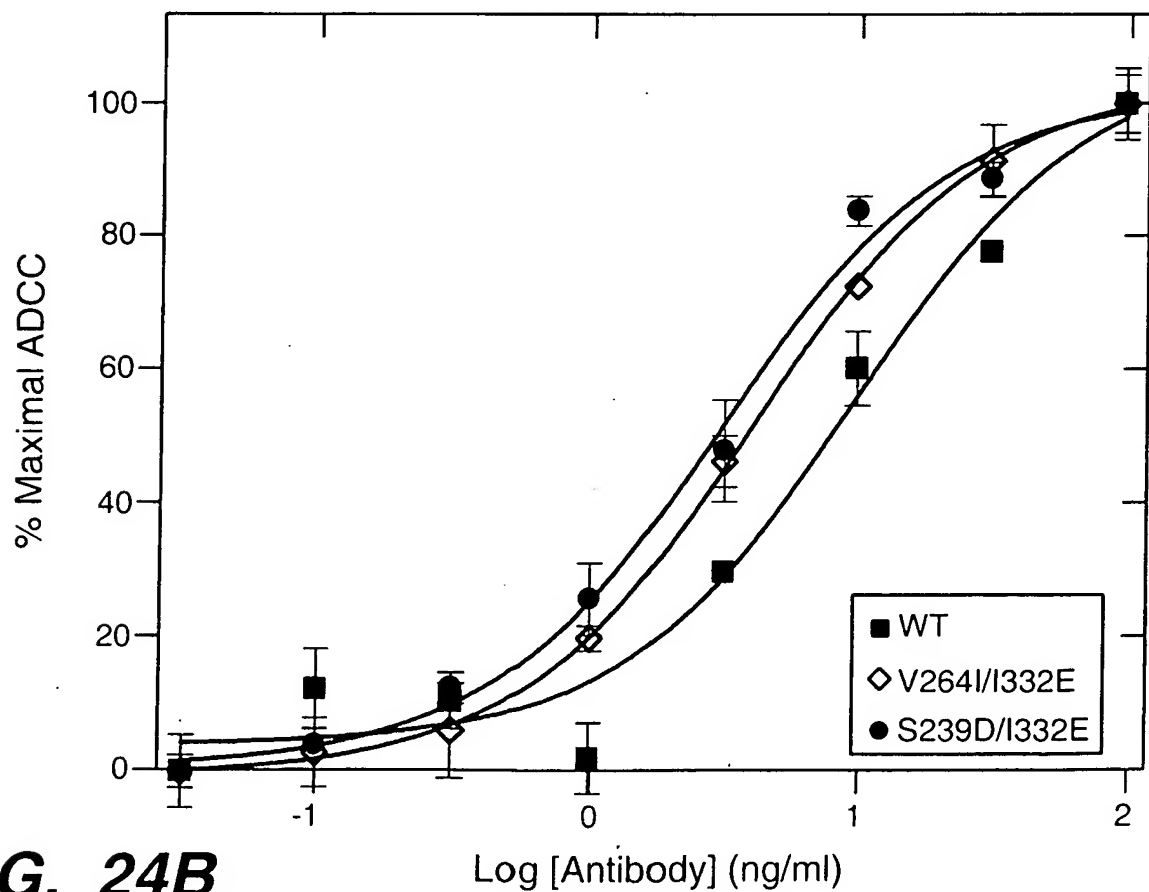


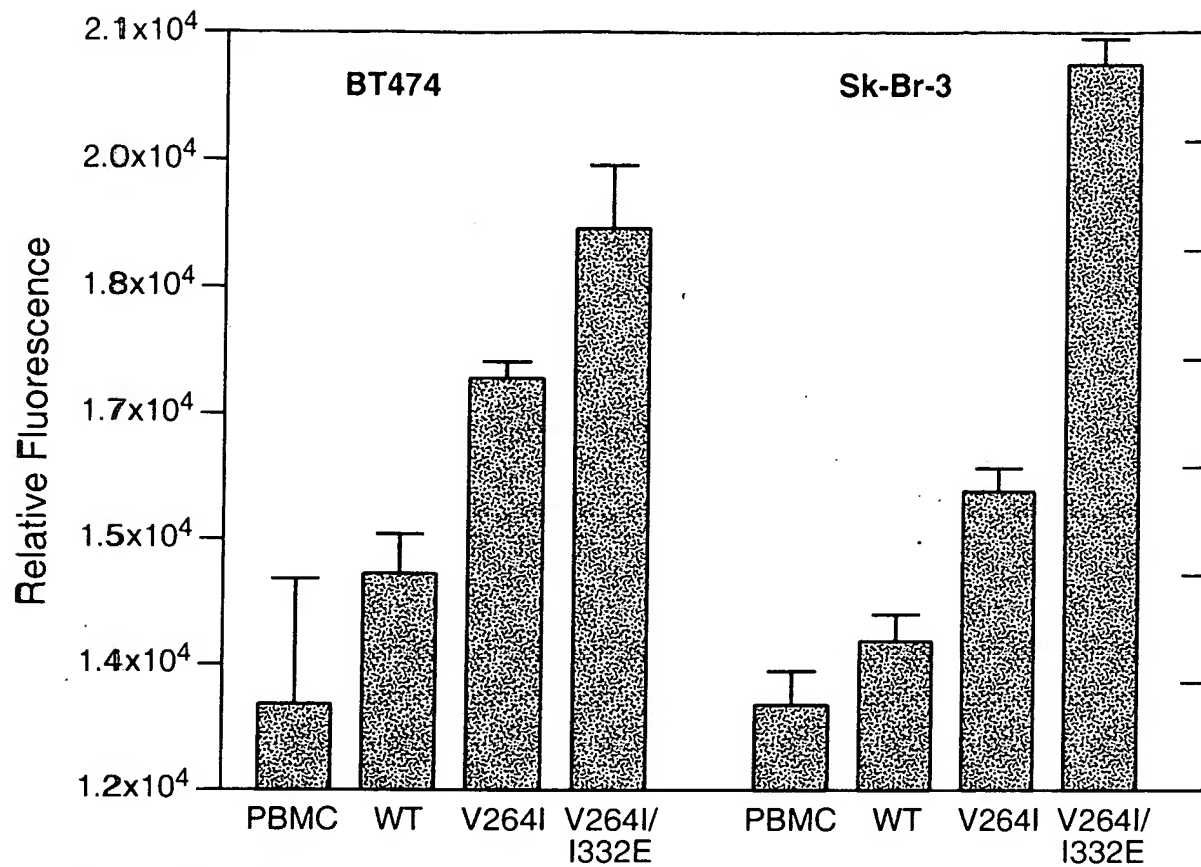
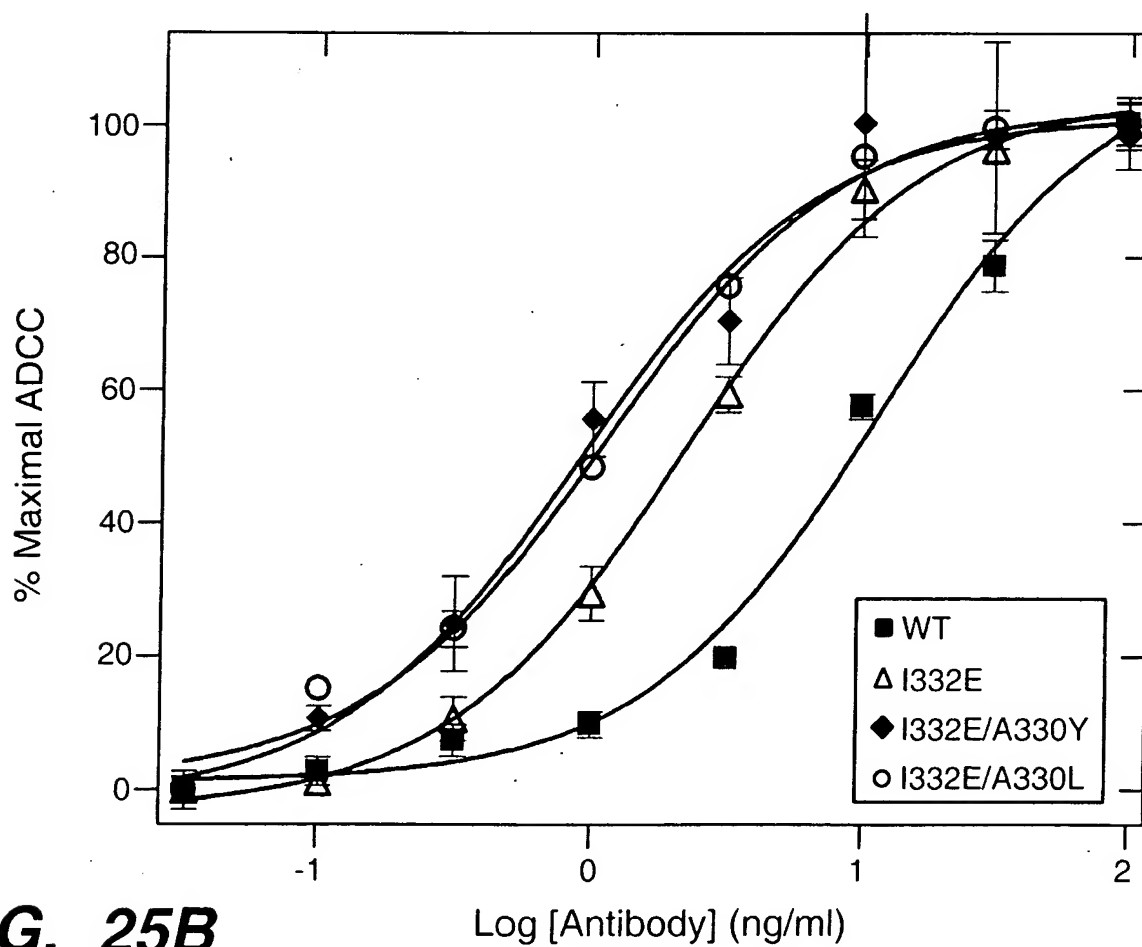


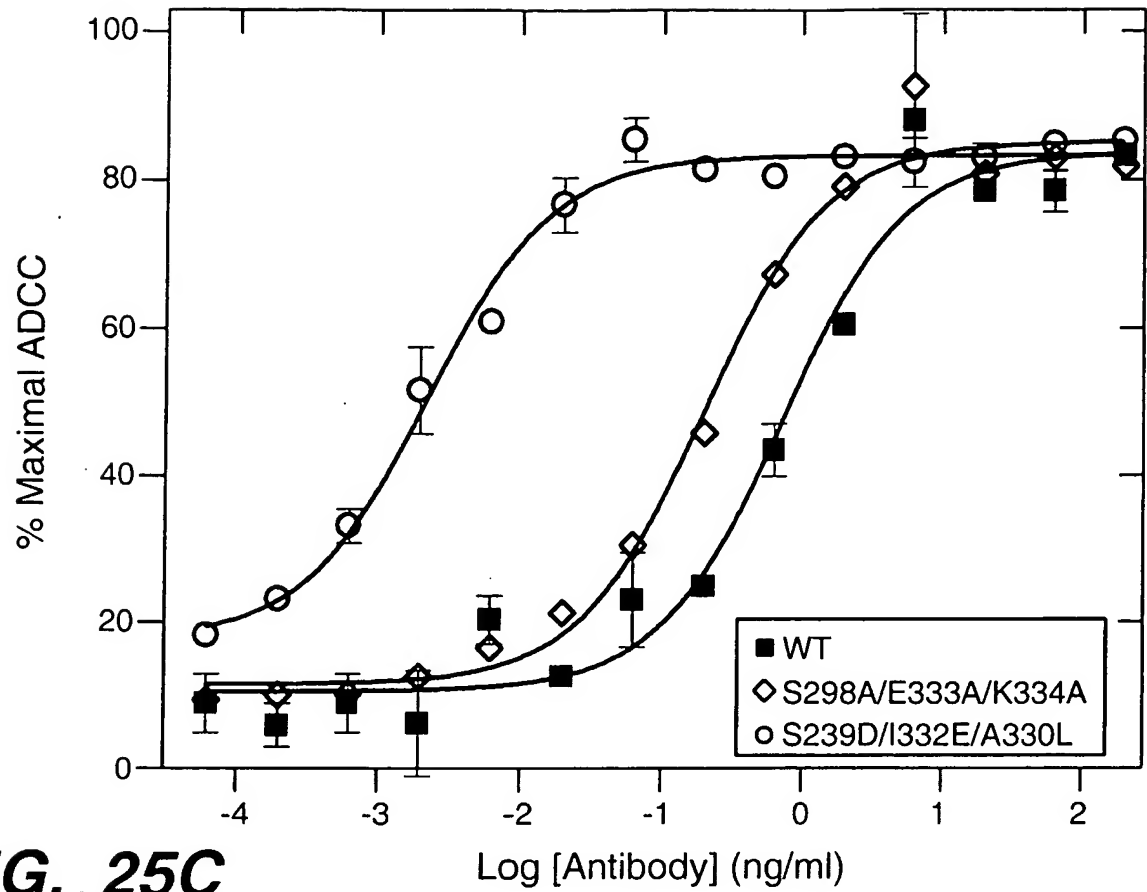
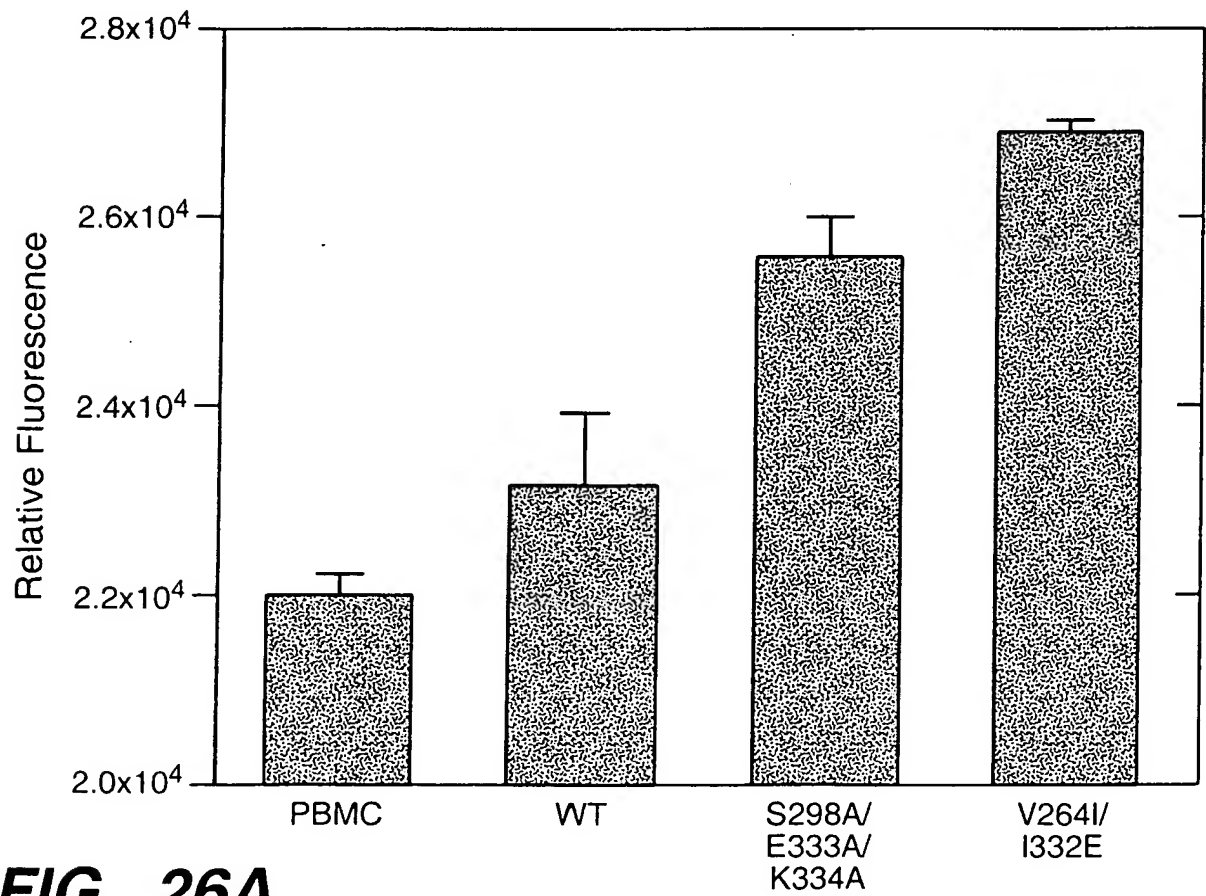
**FIG. 22A****FIG. 22B**

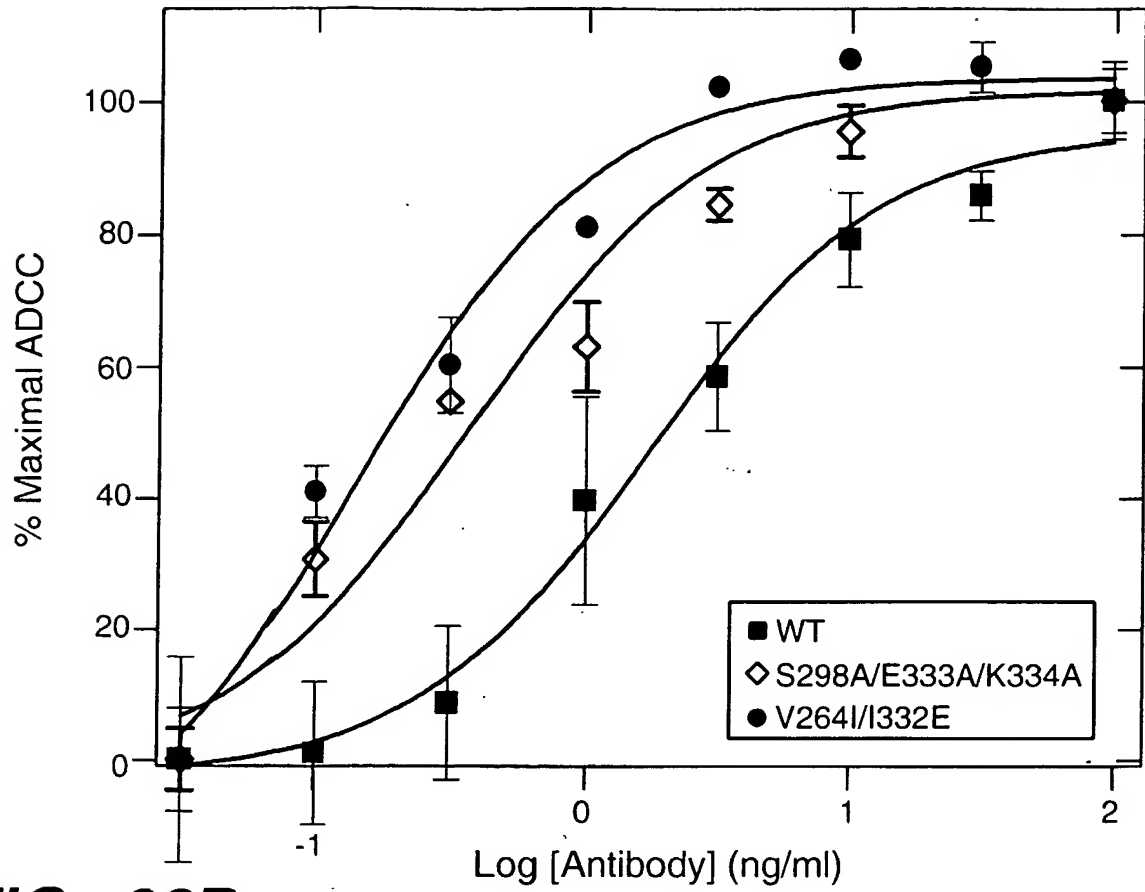
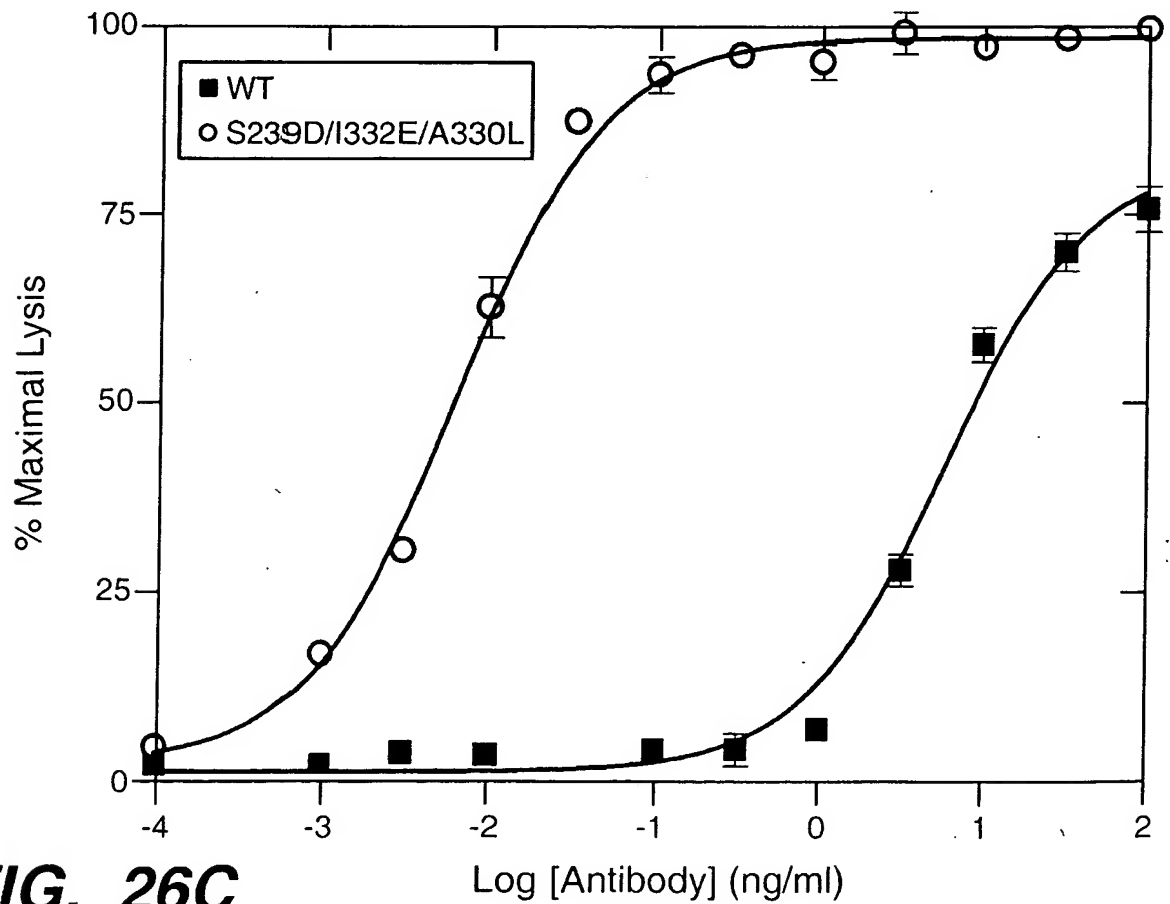
**FIG.\_23A****FIG.\_23B**

**FIG.\_23C****FIG.\_23D**

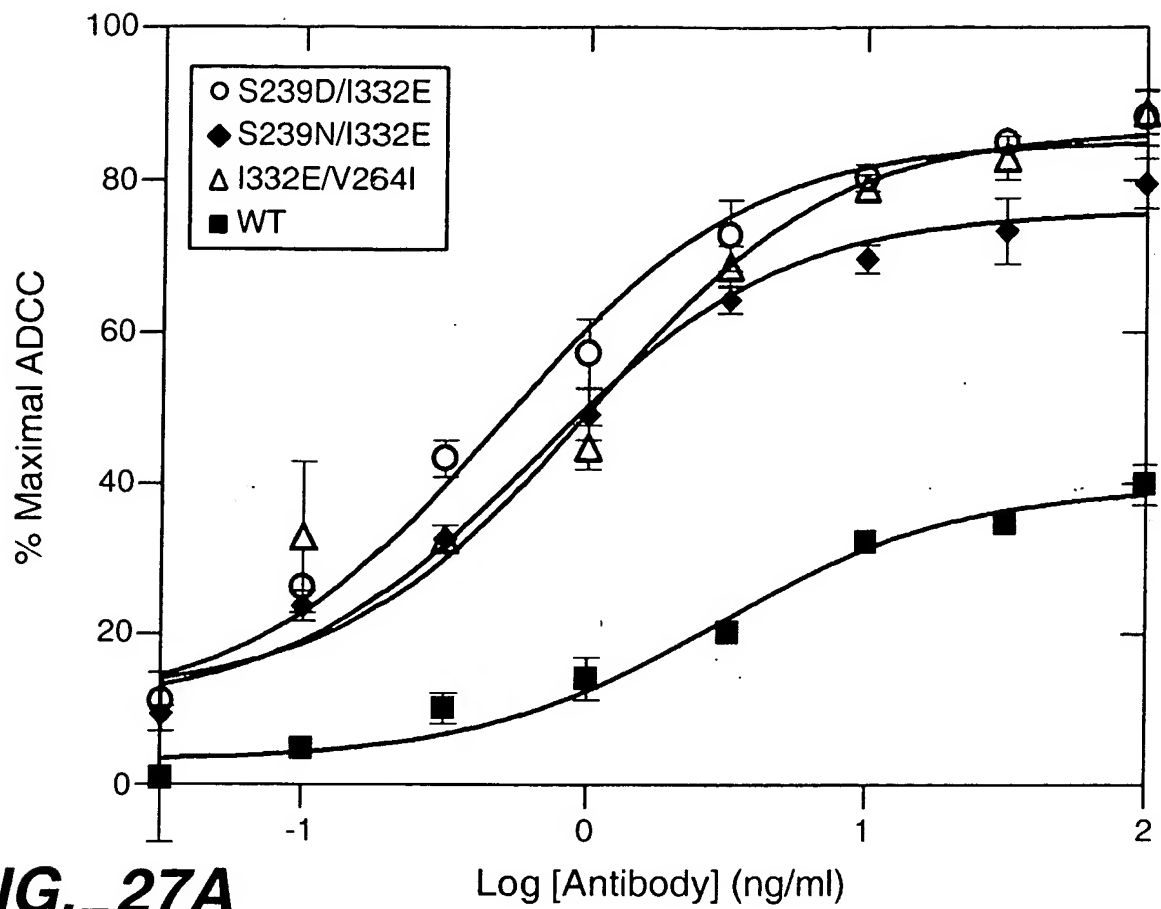
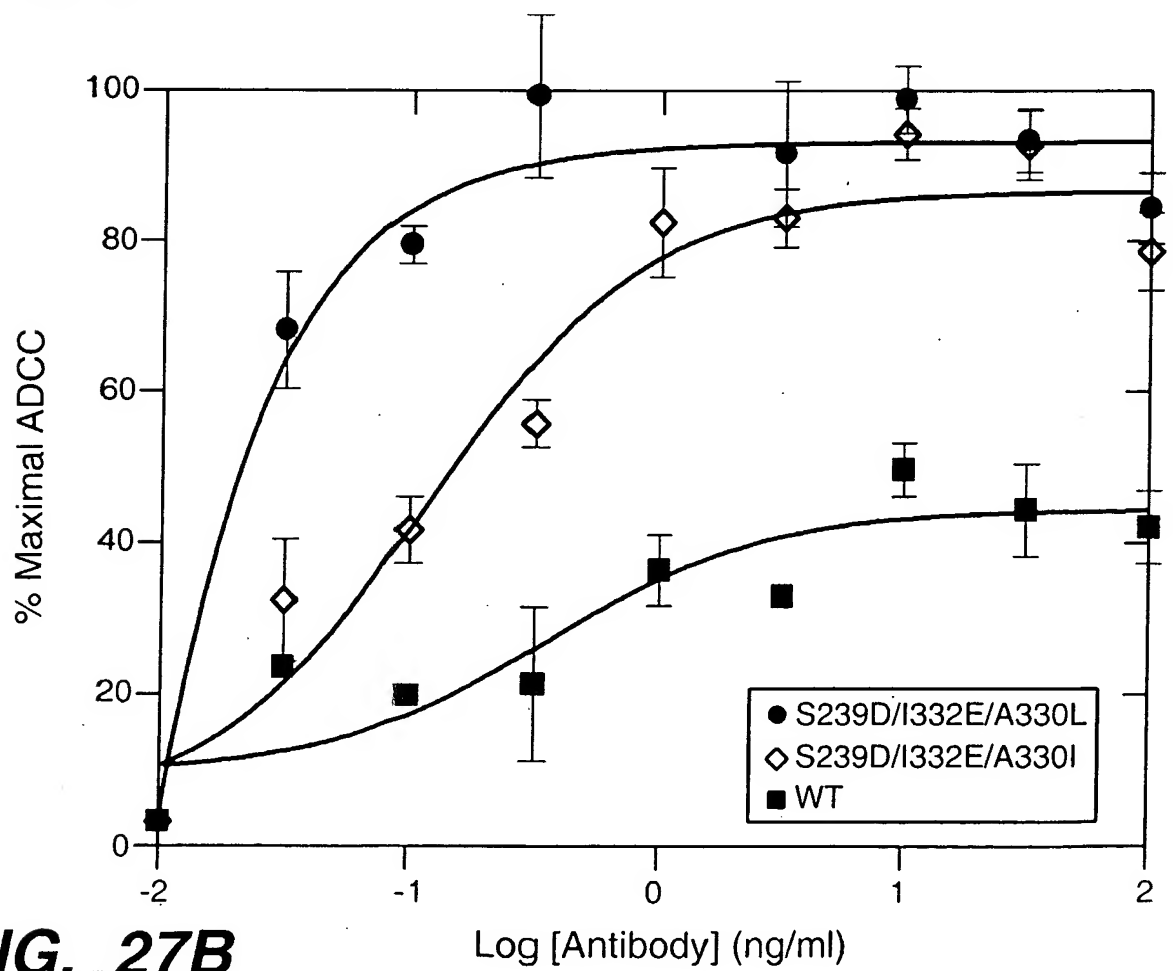
**FIG. 24A****FIG. 24B**

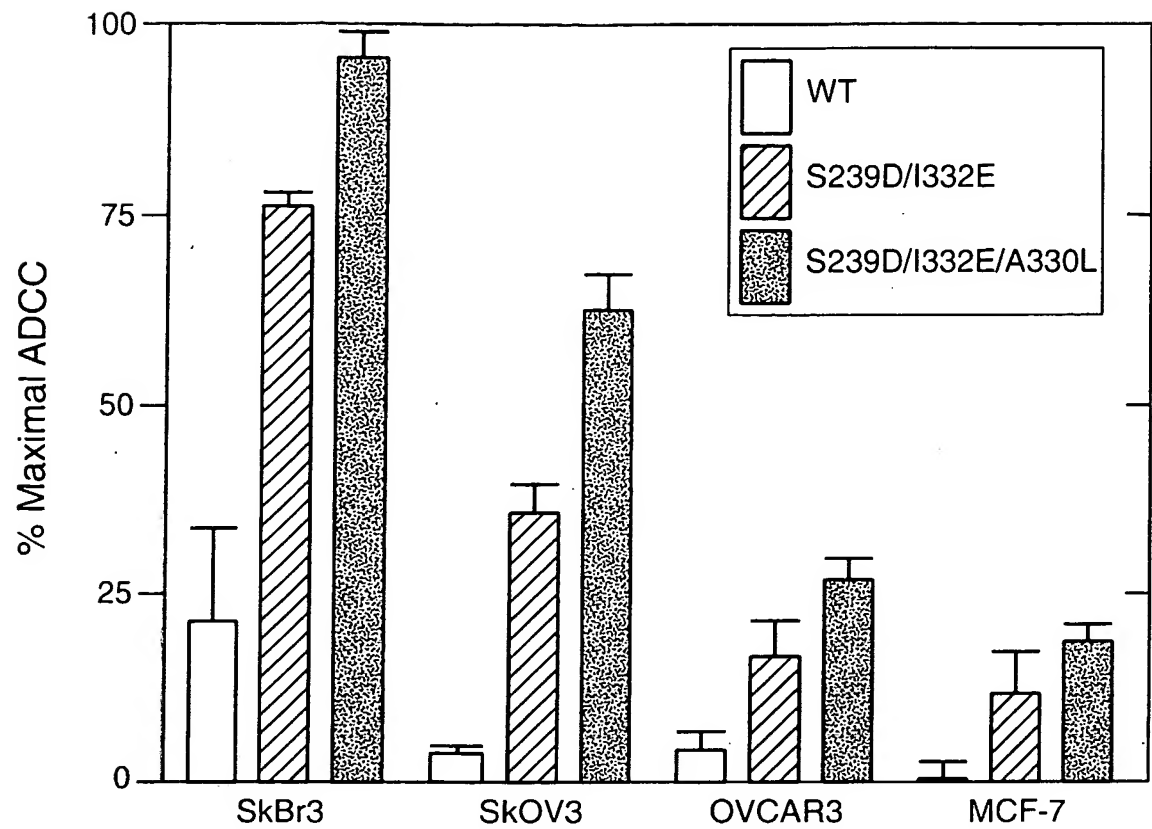
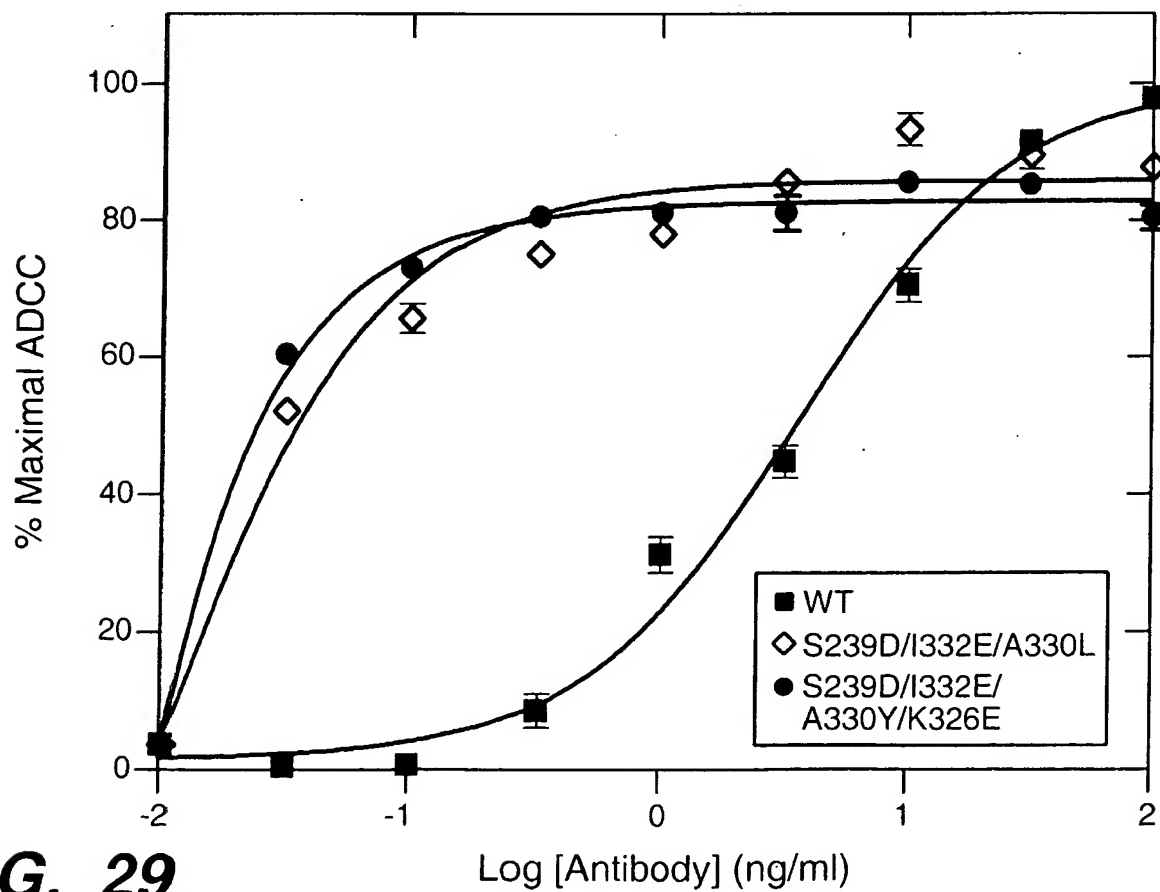
**FIG.\_25A****FIG.\_25B**

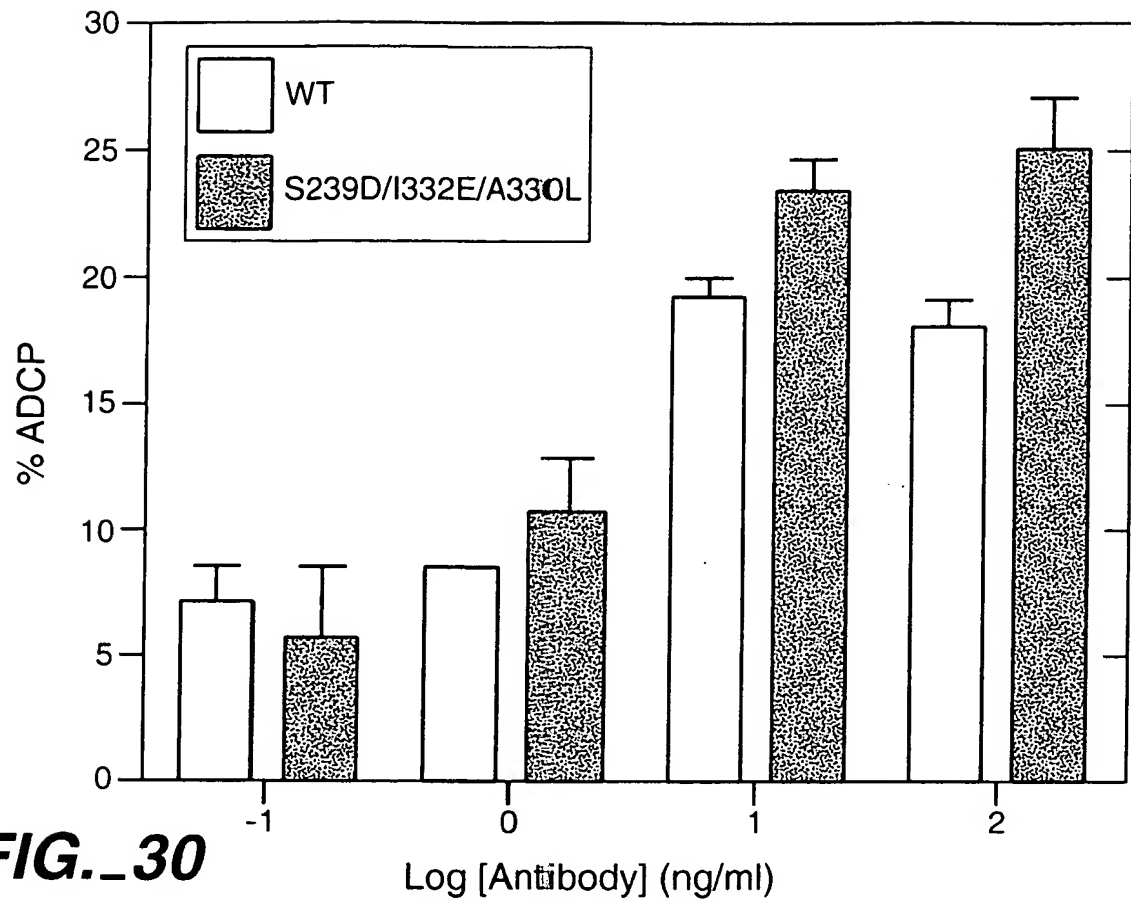
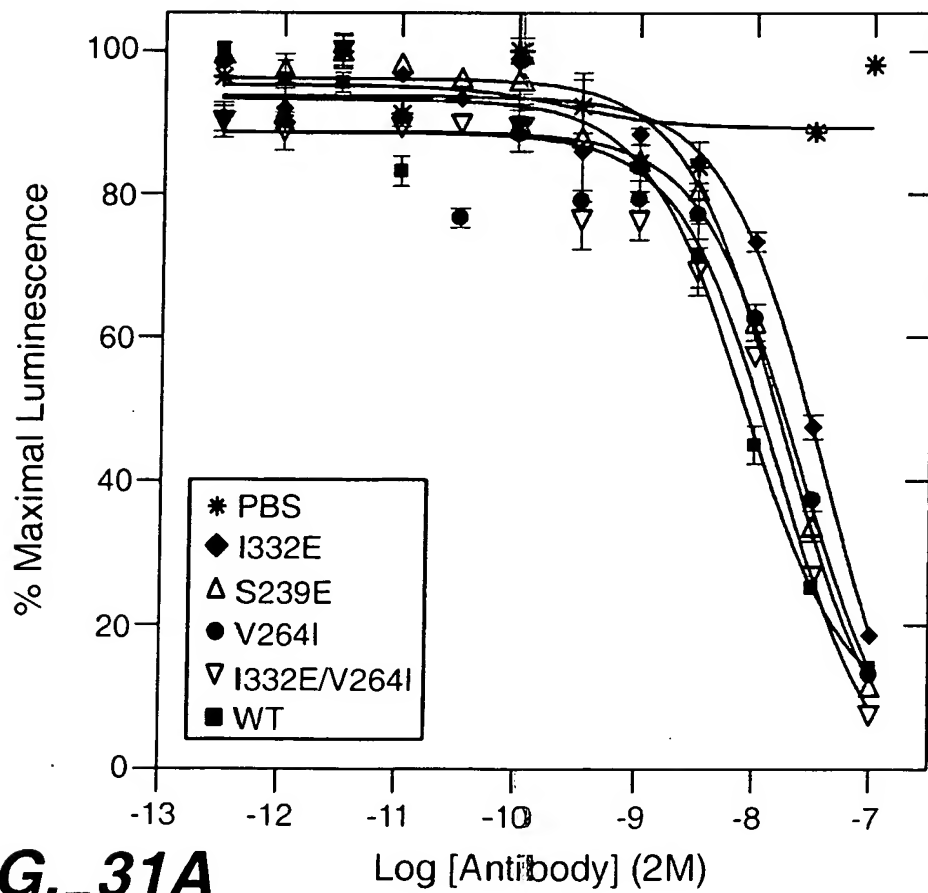
**FIG.\_25C****FIG.\_26A**

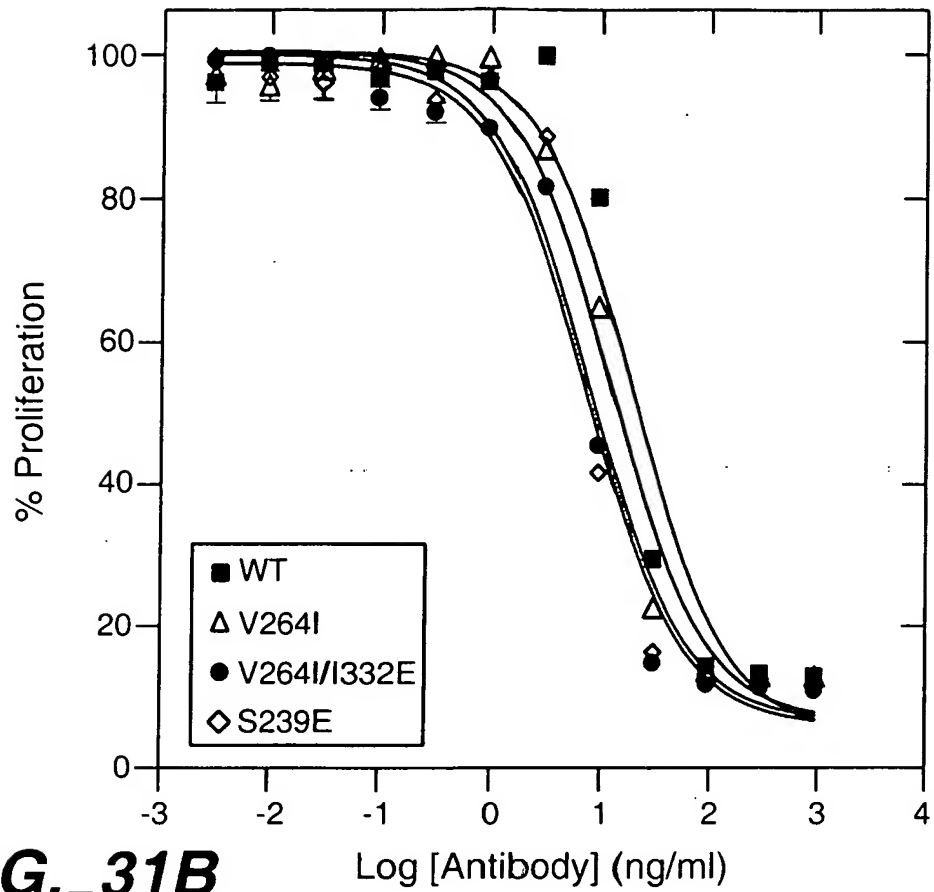
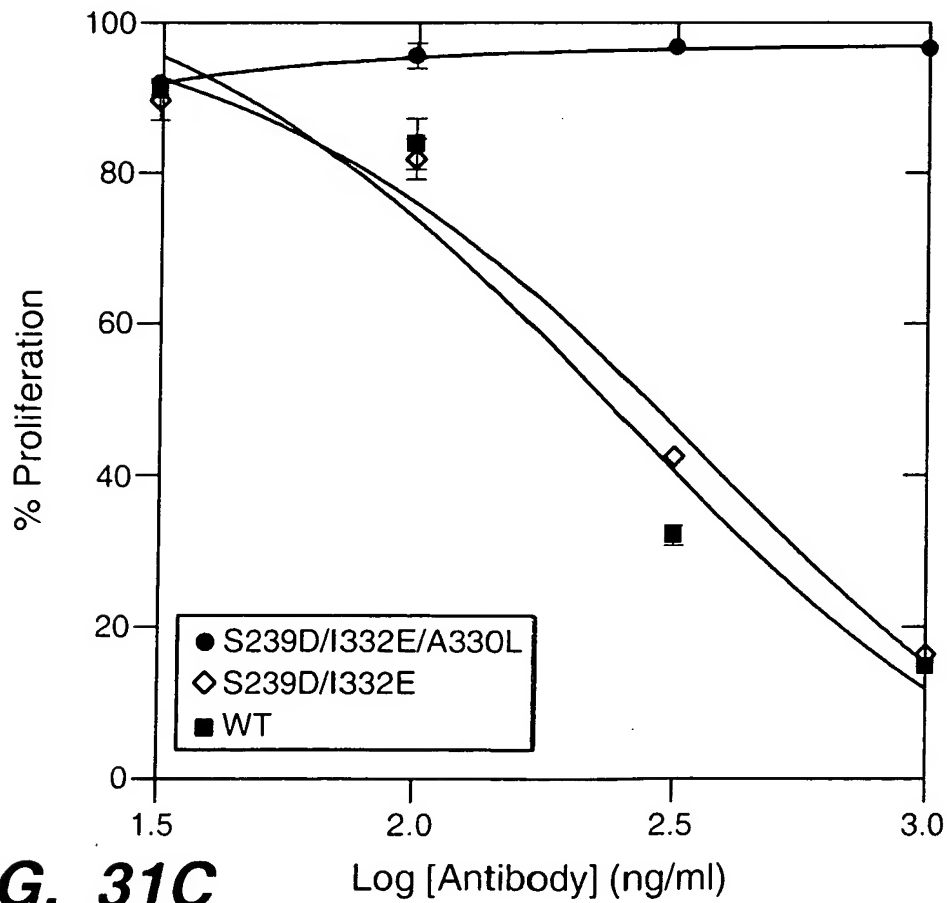
**FIG. 26B****FIG. 26C**

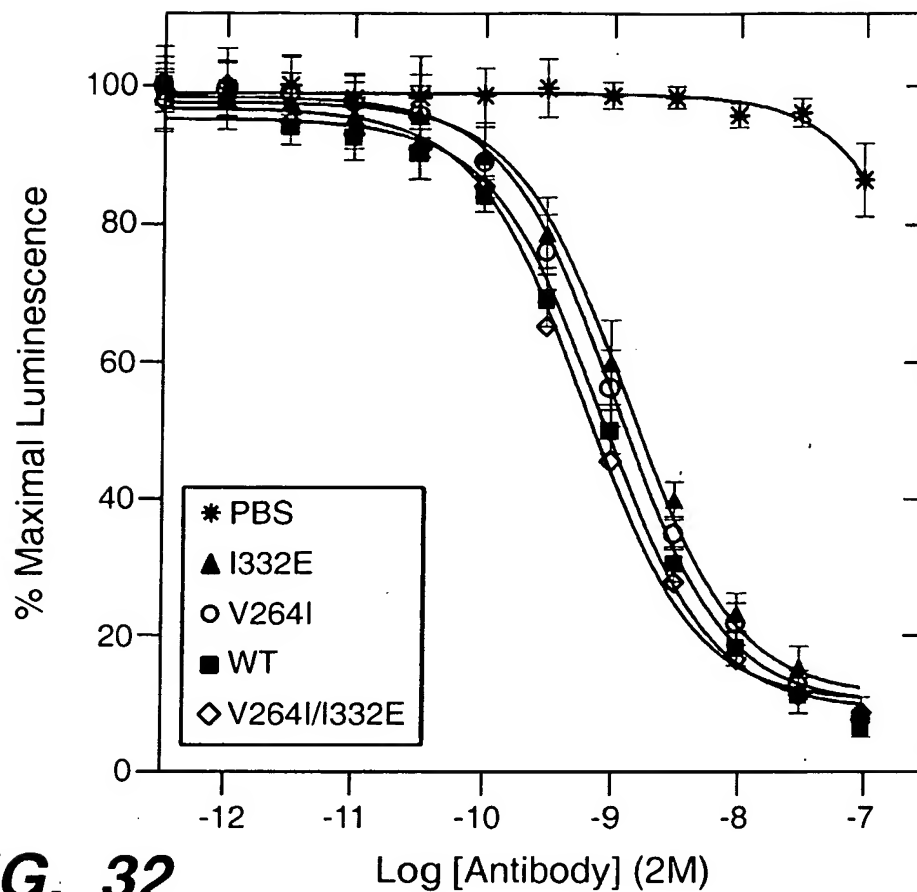
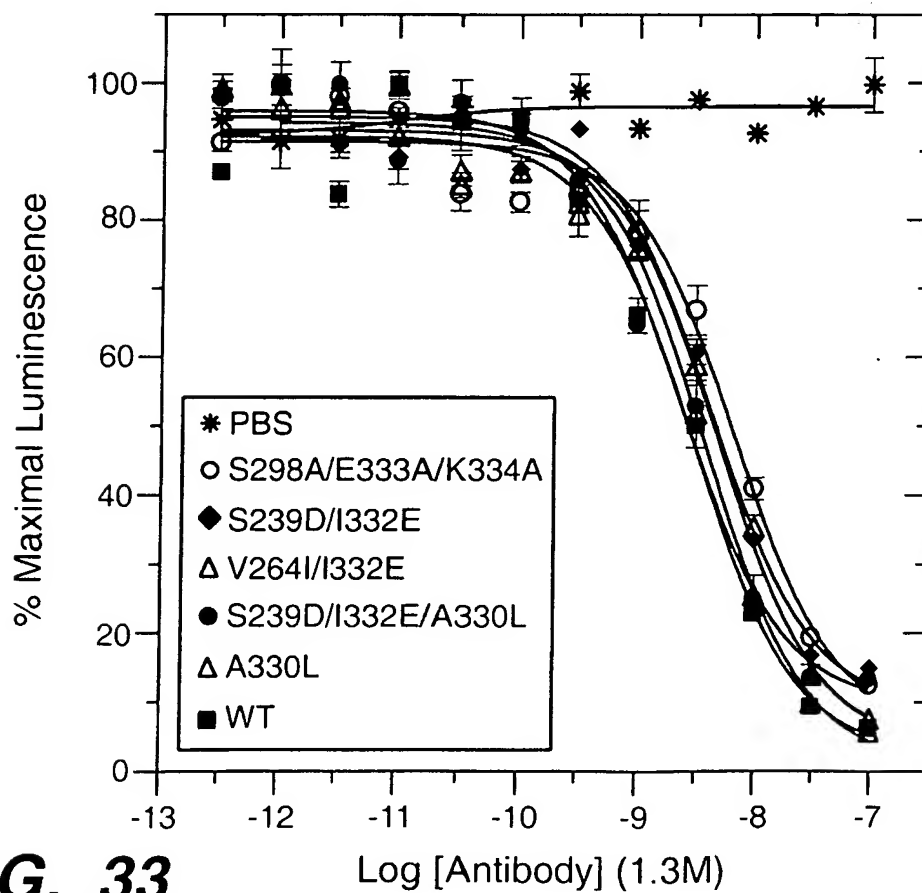


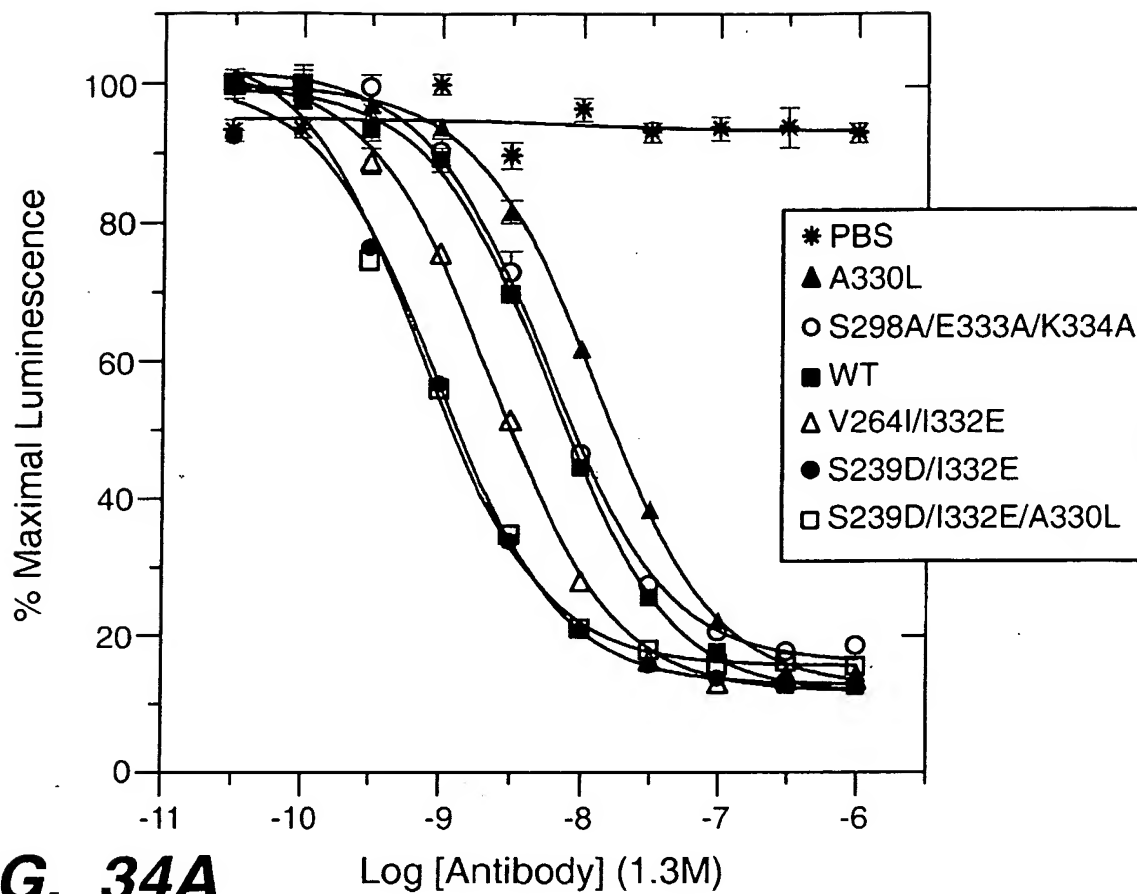
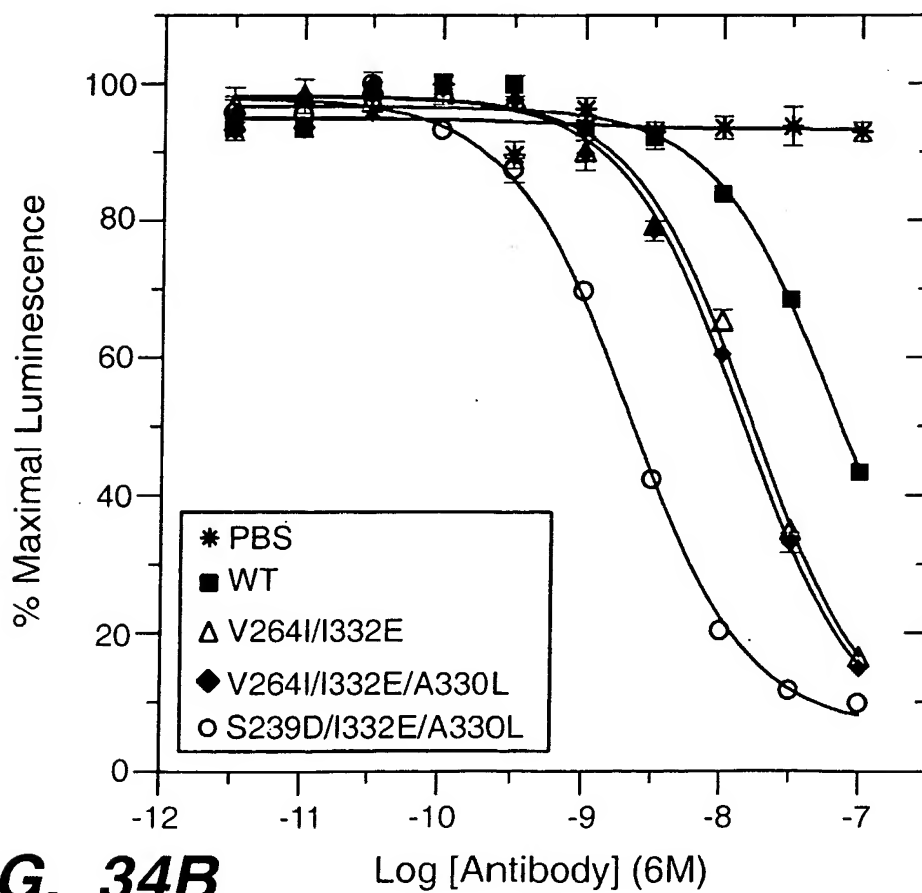
**FIG. 27A****FIG. 27B**

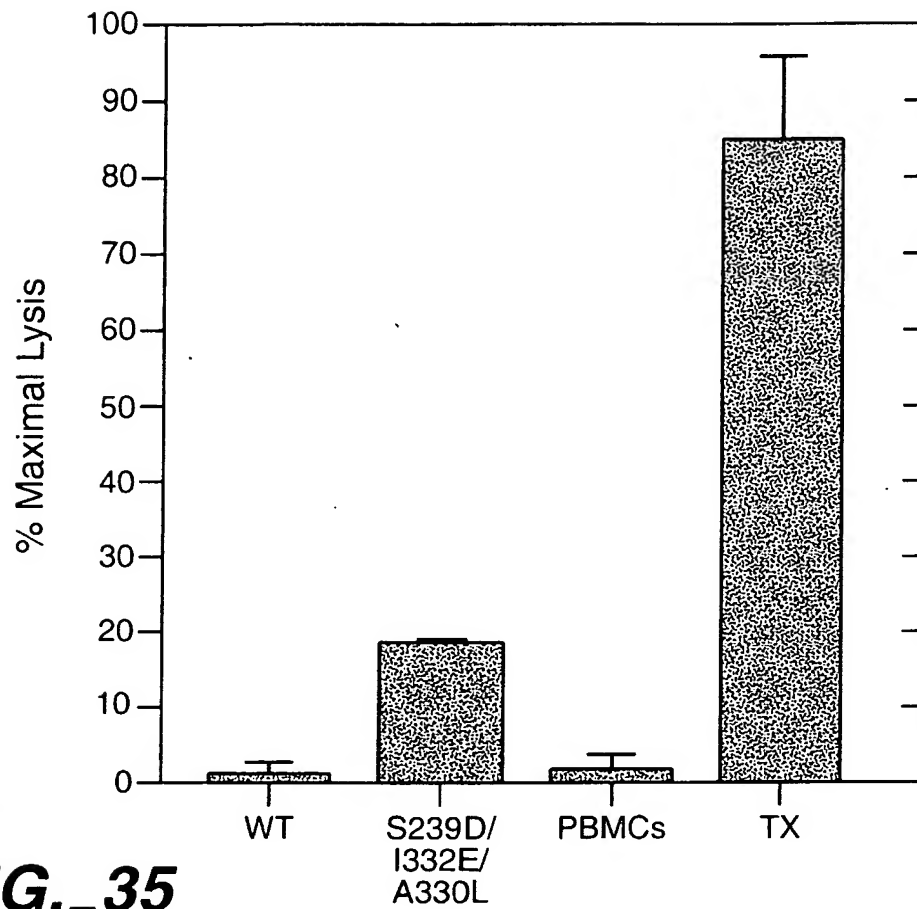
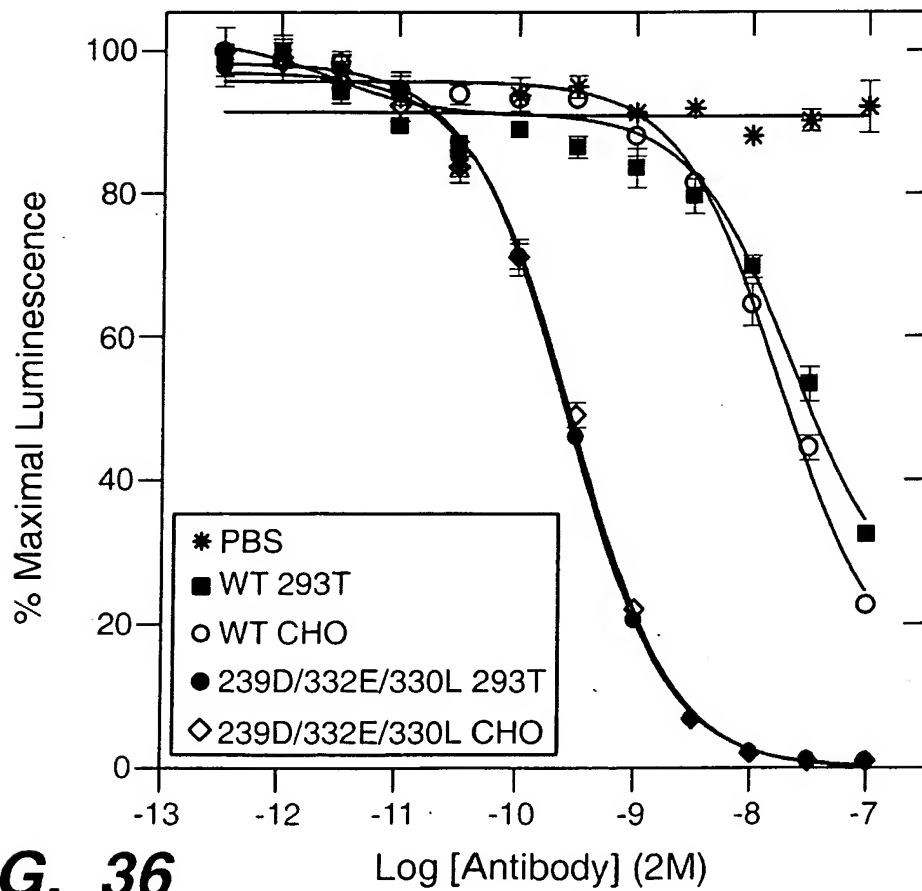
**FIG.\_28****FIG.\_29**

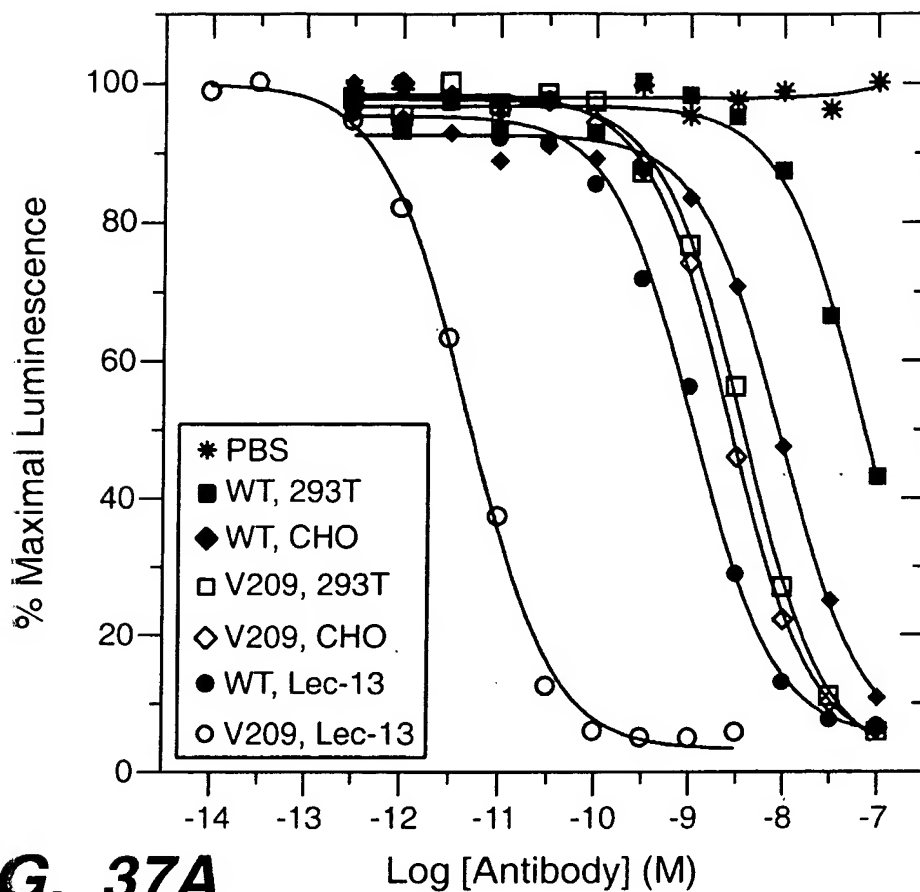
**FIG.\_30****FIG.\_31A**

**FIG. 31B****FIG. 31C**

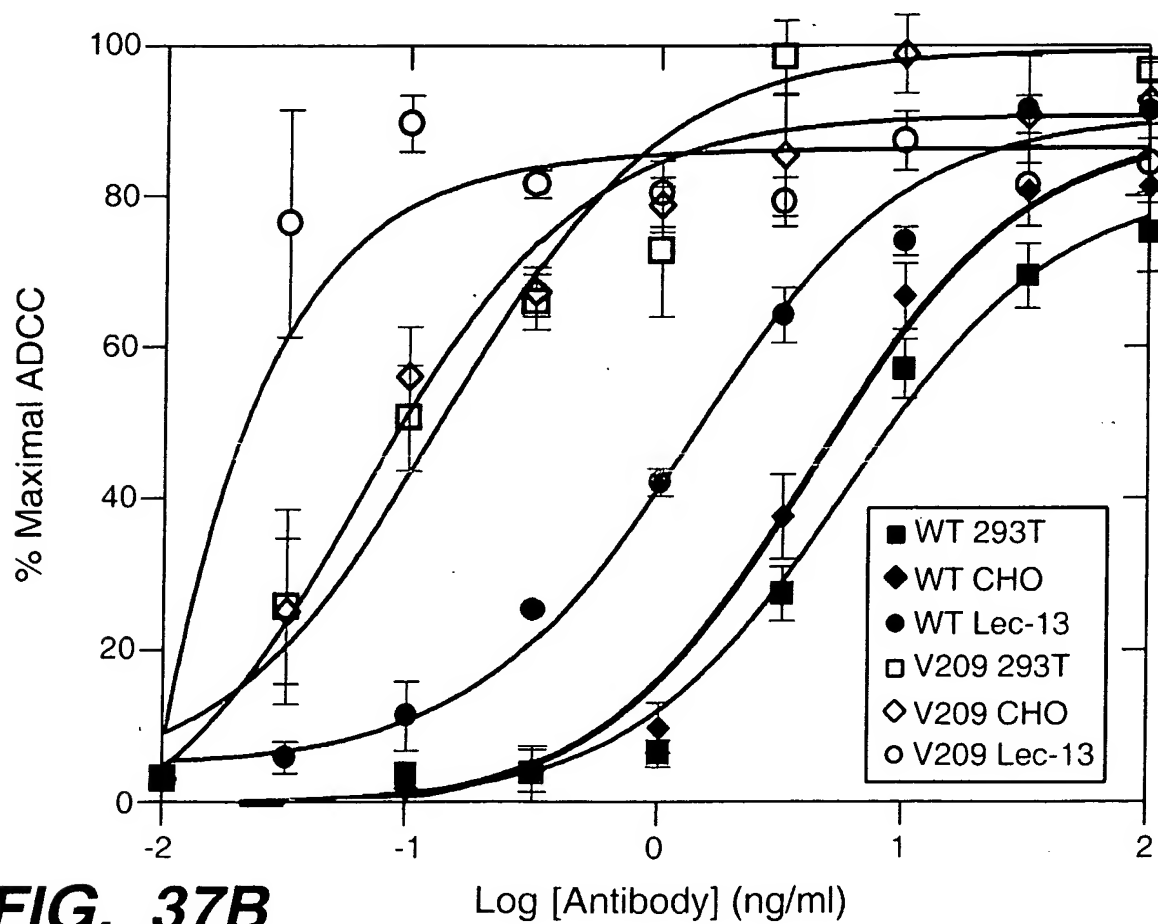
**FIG. 32****FIG. 33**

**FIG. 34A****FIG. 34B**

**FIG.\_35****FIG.\_36**



**FIG. 37A**





SEQ ID NO: 3

Anti-CD20 Light Chain

QIVLSQSPAILSASPGEKVTMTCRASSSVSYIHWFQQKPGSSPKWIYATSNLASGVPVRFSGSGSG  
 TSYSLTISRVEAEDAATYYCQQWTSNPPTFGGGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCL  
 LNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDYSLSTLTLSKADYEKHKVYACEVTHQGLS  
 SPVTKSFNRGEC

**FIG.\_38A**

SEQ ID NO: 4

Anti-CD20 Heavy Chain

QVQLQQPGAELVKPGASVKMSCKASGYTFTSYNMHWVKQTPGRGLEWIGAIYPGNGDTSYNQKFKGK  
 ATLTADKSSSTAYMQLSSLTSEDSAVYYCARSTYYGGDWYFNVWGAGTTVTVSAASTKGPSVFPLAP  
 SSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQT  
 YICNVNHKPSNTKVDKKAEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV  
 DVSHEDPEVKFKNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAP  
 IEKTIKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVV  
 DSDGSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLSLSPGK

**FIG.\_38B**

SEQ ID NO: 5

Anti-CD20 Heavy Chain Comprising Possible Fc Variants

QVQLQQPGAELVKPGASVKMSCKASGYTFTSYNMHWVKQTPGRGLEWIGAIYPGNGDTSYNQKFKGK  
 ATLTADKSSSTAYMQLSSLTSEDSAVYYCARSTYYGGDWYFNVWGAGTTVTVSAASTKGPSVFPLAP  
 SSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQT  
 YICNVNHKPSNTKVDKKAEPKSCDKTHTCPPCPAPELLGGPX<sub>1</sub>X<sub>2</sub>FLFPPKPKDTLMISRTPEVTCV  
 VX<sub>3</sub>DVSHEDPX<sub>4</sub>VX<sub>5</sub>FNWYVDGVEVHNAKTKPREEQYX<sub>6</sub>Z<sub>1</sub>TYRVVSVLTVLHQDWLNGKEYKCKVSN  
 Z<sub>2</sub>ALPX<sub>7</sub>PX<sub>8</sub>EKTIKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN  
 NYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLSLSPGK

Position	WT	Possible Substitutions
X <sub>1</sub>	S	D, E, N, Q, T
X <sub>2</sub>	V	I, M
X <sub>3</sub>	V	I, T, Y
X <sub>4</sub>	E	Y
X <sub>5</sub>	K	E
X <sub>6</sub>	N	D
X <sub>7</sub>	A	Y, L, I
X <sub>8</sub>	I	D, E, N, Q
Z <sub>1</sub>	S	A
Z <sub>2</sub>	K	E, T

**FIG.\_38C**

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